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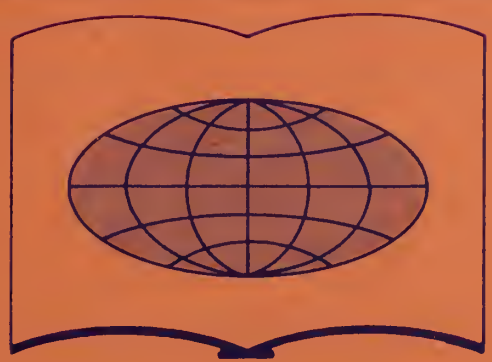

Volume 5 Number 17
August 22, 1969

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PESTICIDES DOCUMENTATION BULLETIN

Volume 5
August 22, 1969
Number 17

A Bi-Weekly Publication of U.S. Department of Agriculture

OBJECTIVES AND SCOPE

The *Pesticides Documentation Bulletin* is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture*, a monthly publication of the National Agricultural Library.

FORMAT

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

10 Entomology
20 Crop Protection
30 Livestock Protection
40 Commodity Protection
50 Environmental Contamination
55 Residues
60 Toxicology
65 Plant Physiology & Biochemistry
70 Chemistry
80 Engineering
90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

Subject Index: Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

Biographical Index: Names of first authors are arranged alphabetically, followed by organizational affiliation and accession number.

Author Index: Names of personal authors are arranged alphabetically, followed by accession numbers of pertinent citations.

Organizational Index: Names of corporate authors or sponsoring organizations are arranged alphabetically followed by accession numbers of pertinent citations.

Other Files

In addition to the citations contained in the Bulletin, the Pesticides Information Center maintains two other files, the INTREDIS Register and the Herbicides Data File.

The INTREDIS Register is a computer data bank in the field of forest pathology. It contains title and author references to abstracted articles including subject, country, host plant genus or species, organisms causing the diseases, abstracting journal and year of publication. The computer search uses boolean parameters in any combination of elements listed.

The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

Compound Tested
Company furnishing the compound
Author or Investigator
Test Sponsor
Date
Location
Mode of Application
Rates of Application
Soil Types
Carriers
Crops or Weeds tested with phytotoxicity ratings
Associated documentation

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ACKNOWLEDGMENT

The Pesticides Information Center, National Agricultural Library, gratefully acknowledges the cooperation and assistance of the Department of Defense; Health, Education, and Welfare; and Interior; the Federal Committee on Pest Control, and state and industrial organizations in the development of the Center and preparation of this Bulletin. Special thanks are expressed to the Federal Committee on Pest Control for its suggestions and support. We hope the Bulletin will serve as an example of the effectiveness of interdepartmental cooperation and the speed with which effective services can be developed through a coordinated and cooperative interdepartmental effort.

Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

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This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

CAUTION: Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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*This issue does not contain citations under this category.

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ENTOMOLOGY

SYSTEMATICS

9865-69
NEW SPECIES OF CRANE FLIES FROM TROPICAL AMERICA. V. (DIPTERA: TIPULIDAE).
C P Alexander
Kans Entomol Soc J 42(1):83-90
Jan 1969 420 K13
Insect taxonomy, Tipulidae, Zoogeography.

9866-69
NEW OR LITTLE-KNOWN SPECIES OF EXOTIC TIPULIDAE (DIPTERA). XVI.
C P Alexander
Roy Entomol Soc London Proc Ser B Taxonom 38(3-4):33-39
06 May 1969 420 L84PB
Insect taxonomy, Tipulidae.

9867-69
GALL-INHABITING LIOTHRIPS UZEL FROM INDIA.
T N Ananthakrishman A Jagadish
Oriental Insects 2(2):205-217
Jun 1968 QL461.O7
Gall-making insects, Habitats, Insect identification, Insect taxonomy.

The following species were described: Liothrips ater, L. bosei, L. cecidii, L. eugeniae, L. flaveseens, L. furvus, L. nubilis and L. strigosus.

9868-69
A NEW SUB-GENUS AND SPECIES OF THE EUMENINAE (HYMENOPTERA, DIPLOPTERA) FROM THE BULGARIAN FAUNA. (GE)
N Atanassov
Bulgarska Akad Nauk Zool Inst Muz Izv 23:167-174
1967 410.9 B8721
Eumenidae, Insect taxonomy, Zoogeography. Russian abstract.

9869-69
A NEW GENUS OF NOTERIDAE (COLEOPTERA: NOTERIDAE, NOTERINI).
J Balfour-Browne
Roy Entomol Soc London Proc Ser B Taxonom 38(1-2)15-6
18 Mar 1969 420 L84PB
Insect taxonomy, Noteridae.

9870-69
NEW SPECIES OF CHRYSOBOTHRIS FROM THE PACIFIC NORTHWEST (COLEOPTERA: BUPRESTIDAE).
W F Barr
Entomol Soc Wash Proc 71(2):117-132
Jun 1969 420 W27
Buprestidae, Chrysobothris, Insect morphology, Insect taxonomy, Pacific Northwest, Zoogeography.

The seven new species described are: Chrysobothris horningi, C. westcotti, C. potentillae, C. idahoensis, C. breviloboides, C. beeri, and C. columbiana.

9871-69
CHLOROPIDAE (DIPTERA), UNKNOWN IN THE FAUNA OF BULGARIA. (RUS)
V Beshovski
Bulgarska Akad Nauk Zool Inst Muz Izv 26:33-38 REF
1968 410.9 B8721
Chloropidae, Insect taxonomy, Surveys. English abstract.

9872-69
THE LARVAE OF ODONATA IN THE VASCULAR TERRITORY OF STAGNANT WATERS IN BULGARIA. (RUS)
V L Besovski
Bulgarska Akad Nauk Zool Inst Muz Izv 26:5-27
1968 410.9 B8721
Insect ecology, Insect taxonomy, Larvae, Odonata, Surveys, Zoogeography. German abstract.

9873-69
YESPIDAE FROM BULGARIA (HYMENOPTERA, DIPLOPTERA). (GE)
P Bluthgen
Bulgarska Akad Nauk Zool Inst Muz Izv 23:229-234
1967 410.9 B8721
Surveys, Vespidae. Russian abstract.

9874-69
A NEW FAMILY TURANONISCIDAE FAM. N. (ISOPODA, ONISCOIDEA) FROM TERMITARIA OF MIDDLE ASIA. (RUS)
E V Borutzky
Zool Zhur 48(4):499-504
Apr 1969 410 R92
Insect nests, Insect taxonomy, Isopoda, Termites. English abstract.

9875-69
A NEW POLYMIXIS HB. OF SPAIN. POLYMIXIS LAJONQUIEREI BRSN. (SUPPLEMENTAL DESCRIPTION (1)) CONTRIBUTION TO THE STUDY OF NOCTUIDAE TRIFINAE 159(2). (FR)
C Boursin
Entomops (9):32-35
28 Sep 1967 QL461.E53
Insect genetics, Insect identification, Insect taxonomy, Noctuidae.

9876-69
THE IDENTIFICATION AND DISTRIBUTION OF QUADRASPIDIOTUS SPECIES (HOMOPTERA: DIASPIDIDAE) ON POME AND STONE FRUITS IN AUSTRALIA.
H M Brookes N M Hudson
Entomol Soc Australia (nsw) J 7(2):90-100 REF
31 Dec 1968 423.92 EN84
Aspidiotus, Diaspididae, Fruit, Insect taxonomy, Zoogeography.

Four species of Quadraspidiotus have been identified on pome and stone fruit trees in Australia, viz. Q. lenticularis (Lind.), Q. ostreaeformis (Curt.), Q. perniciosus (Comst.) and Q. pyri (Licht.). Keys differentiating these species have been provided for second instar nymphs and adult females. Both stages in the four species are described in detail and illustrated. Present known distribution of these species in the Australian states is included.

9877-69
CERCYONIS PEGALA ABBOTTI, NEW SUBSPECIES (LEPID., SATYRIDAE).
F M Brown
Entomol News (philadelphia) 80(7):193-196
Jul 1969 421 EN88
Insect taxonomy, Satyridae.

9878-69
LATHRIDIUS BIFASCIATUS REITT. (COL., LATHRIDIIDAE) HABITATS.
F D Buck
S London Entomol Natur Hist Soc Proc Trans 9(4):99
Dec 1967 420 SO8
Insect ecology, Lathridiidae.

9879-69
REVISION OF THE NEARCTIC MOTH GENUS ABAGROTIS SMITH WITH DESCRIPTIONS OF NEW SPECIES (LEPIDOPTERA: NOCTUIDAE). PART VI THE DUANCA AND PLACIDA GROUPS; CHECKLIST OF THE PRESENTLY KNOWN SPECIES WITHIN THE GENUS.
J S Buckett
Calif Bur Entomol Occas Pap (17):3-27 MAP REF
1969 420 C122
Insect taxonomy, Noctuidae, Surveys, Zoogeography.

9880-69
BUTTERFLIES HT COLLOBRIERES, VAR. ALPES MAURES, PROVENCE IN JULY AND AUGUST 1967.
P Calderara
S London Entomol Natur Hist Soc Proc Trans 9(4):100-102
Dec 1967 420 SO8
Lepidoptera, Seasonal variation, Surveys.

9881-69
A CHANGE IN THE LEPIDOPTERA OF HAMPSTEAD AFTER FOUR DECADES.
C I Carter
S London Entomol Natur Hist Soc Proc Trans 9(4):123-125
Dec 1967 420 SO8
Lepidoptera, Surveys.

9882-69
EAR MITES OF THE GENUS DICROCHELES (ACARINA: MESOSTIGMATA) FOUND ON NOCTUIDS IN HAWKES BAY.
T H Davies
New Zeal Entomol 4(2):26-32
Apr 1969 421 N48
Ears, Insect behavior, Mesostigmata, Mites, Noctuidae, Parasitic insects.

9883-69
STUDY OF THE WORLD GYPONINAE (HOMOPTERA: CICADELLIDAE). A SYNOPSIS OF THE GENUS CLINONARIA.
D M DeLong P H Freytag
Ohio J Sci 69(3):129-182
May 1969 410 OH3
Cicadellidae, Insect taxonomy, Surveys, Zoogeography.

9884-69
TWO NEW PALEARCTIC LITHOCOLLETIS SPECIES. (PRELIMINARY DESCRIPTION). (GE)
G Deschka
Wien Entomol Ges Z 78(9-10):84-85
15 Dec 1967 421 OS7
Gracillariidae, Insect taxonomy, Zoogeography.

9885-69
DESCRIPTION OF DENDROCERUS (T-MACROSTIGMA) NOUMEAE SP. NOV. FROM NEW CALEDONIA (CERAPHRONOIDEA, MEGASPILIDAE). (FR)
P Dessart
Entomophaga 12(4):343-349
1967 421 EN835
Ceraphronidae, Insect ecology, Insect taxonomy, Zoogeography. English abstracts.

9886-69
A NOTE: SOME RECORDS OF AUSTRALIAN NOCTUIDAE IN NEW ZEALAND.
J S Dugdale
New Zeal Entomol 4(2):13-14
Apr 1969 421 N48
Noctuidae, Surveys.

9887-69
A NEW SPECIES OF EPHYDRELLA TONNOIR AND MALLOCH (DIPTERA: EPHYDRIDAE).
L J Dumbleton
New Zeal Entomol 4(2):38-46 REF
Apr 1969 421 N48
Ephydridae, Insect taxonomy.

9888-69
NEW SIMULIIDAE (DIPTERA) FROM NEW CALEDONIA AND NORFOLK ISLAND.
L J Dumbleton
New Zealand J Sci 12(2):213-222
Jun 1969 514 N482
Insect taxonomy, Simuliidae.

9889-69
CHARACTERS FOR IDENTIFICATION OF SOME COMMON PLUSIINE CATERPILLARS OF THE SOUTHEASTERN UNITED STATES.

T D Eichlin H B Cunningham
Entomol Soc Amer Ann 63(3):507-510
May 1969 420 EN82
Insect taxonomy, Larvae, Plusiinae.

9890-69
CONTRIBUTION TO THE KNOWLEDGE OF THE STAPHYLINIDAE. CI. DIVERSE REMARKS ON SOME QUEDIUS FROM THE EASTERN MEDITERRANEAN. (FR)
G Fagel
Inst Roy Sci Natur Belg Bull 44(12):1-13
25 Feb 1968 504 B835B
Insect taxonomy, Quedius, Zoogeography.

9891-69
ALLOMORPHUS FRANZI, N. GEN., N. SPEC. (COLEOPTERA, CURCULIONIDAE), A NEW SPECIES AND GENUS FROM AUSTRIA. 8. CONTRIBUTION TO THE KNOWLEDGE OF THE PALEARCTIC COSSONINAE. (GE)
B Folwaczny
Entomol Bl 64(1):41-42
15 Jul 1968 421 EN833
Allomorphus franzi, Cossoninae, Curculionidae, Insect taxonomy.

9892-69
CONTRIBUTION TO THE KNOWLEDGE OF THE COCCIDAE FROM BRAZIL (HOMOPTERA-COCCIDEA). (POR)
J P de Fonseca
Sao Paulo Inst Biol Arq 36(1 JAN-MAR):9-40 REF
Mar 1969 442.9 SA6
Coccoidea, Insect taxonomy.

Three new genera, nine new species and two new sub-species of the Coccoidea, are described in this paper, as well as Pseudoparlatoria caucae Balachowsky, from Columbia, which has been recently found in Brazil.

9893-69
SCYMNUS (SIDIS) HIEKEI FURSCH, AS A FOE OF PSEUDOCOCCUS CITRI RISSO. (GE)
H Fursch
Entomophaga 12(3):309-310
1967 421 EN835
Coccinellidae, Insect taxonomy, Planococcus citri, Predaceous insects, Scymnus. French abstract.

9894-69
RESULTS OF AN AUSTRIAN LEPIDOPTERA COLLECTING TRIP TO SYRIA AND LEBANON. (PART V.: EPERMENIIDAE). (GE)
R Gaedike
Wien Entomol Ges Z 78(9-10):85-88
421 OS7
Epermeniidae, Insect taxonomy, Surveys.

9895-69
THOMISUS ONUSTUS WALCK. (ARACHNIDA) RECORDED IN ERROR FROM THURSLEY COMMON SURREY.
P A Goddard
S London Entomol Natur Hist Soc Proc Trans 7(6,PT 1):14
Mar 1967 420 SO8
Arachnida, Insect taxonomy.

9896-69
CNEMACANTHA ILLOTA (LOEW) (DIPT., LAUXANIIDAE) RECORDED IN ERROR FROM STANMORE COMMON, MIDDX.
P A Goddard
S London Entomol Natur Hist Soc Proc Trans 7(6,PT 1):12
Mar 1967 420 SO8
England, Insect taxonomy, Lauxaniidae.

9897-69
ORIENTAL SPECIES OF COESULA CAMERON (HYMENOPTERA: ICHNEUMONIDAE).
V K Gupta J K Jonathan
Oriental Insects 2(2):155-193 MAP
Jun 1968 QL461.O7
Ichneumonidae, Insect identification, Insect taxonomy, Zoogeography. 11 new species and 5 new subspecies are described.

9898-69
A NEW DROSOPHILA SPECIES FROM NORTHERN FENNOSCANDIA (DIPTERA).
W Hackman
Notulae Entomol 49(2):69-72
1969 421 N84
Drosophila, Insect taxonomy.

9899-69
THE OCCURRENCE OF DANIS HYMETUS TAYGETUS (FELDER) AT BAYVIEW, NEW SOUTH WALES.
L C Haines
62
24 Apr 1969 410.9 N48P
Insect taxonomy, Lycaenidae. Proceedings for the years 1967-68

9900-69
THE TIGER MOTHS OF THE COUNTY OF CUMBERLAND, NEW SOUTH WALES.
L C Haines
59-61
24 Apr 1969 410.9 N48P
Arctiidae, Surveys. Proceedings for the years 1967-68.

9901-69
A KEY TO THE SPECIES OF CARCINOPS MARSEUL (COLEOPTERA, HISTERIDAE) ASSOCIATED WITH STORED PRODUCTS, INCLUDING C. TROGLODYTES (PAYKULL) NEW TO THIS HABITAT.
D G H Halstead
J Stored Prod Res 5(1): 83-85
May 1969 421 J829
Histeridae, Insect taxonomy, Stored products, Surveys.

9902-69
LIST OF INSECT AND OTHER INVERTEBRATE TYPES IN THE MIGUEL LILLO INSTITUTE. (3RD LIST). (SP)
K J Hayward
Acta Zool Lilloana 22:337-352
1967 410 AC82
Catalogs, Insect collection.

9903-69
THREE NEW SPECIES OF GENOS BLAPTICA, STAL, 1874 (DICTYOPTERA, BLABERIDAE OF THE REPUBLIC OF ARGENTINA). (SP
H C Hepper
Acta Zool Lilloana 22:221-229
1967 410 AC82
Blaberidae, Insect taxonomy. English abstract.

9904-69
CADDIS LARVAE.
N E Hickin
S London Entomol Natur Hist Soc Proc Trans 9(4):102
Dec 1967 420 SO8
Larvae, Reviews, Trichoptera.

9905-69
SYNONYMY OF KEIFERIA GLOCHINELLA (ZELLER) AND RELATED NAMES (LEPIDOPTERA: GELECHIIDAE).
R W Hodges
Entomol Soc Wash Proc 71(1):34-37 MAP REF
Mar 1969 420 W27
Gelechiidae, Insect taxonomy, Isophrictis similiella, Keiferia glochinella, Keiferia inconspicuella.

9906-69
A NEW SPECIES OF TRICHACOIDES FROM INDIA WITH A REDESCRIPTION OF T. SCUTELLARIS DODD (HYMENOPTERA: PLATYGASTERIDAE).
D Jackson
Roy Entomol Soc London Proc Ser B Taxonom 37(9-10):121-124
22 Nov 1968 420 L84PB
Insect taxonomy, Platygasteridae.

A second species of Trichacoides Dodd, parasitic on Procontarinia sp. (Cecidomyiidae), is described from India. The first description of a male of this genus is given. Trichacoides scutellaris Dodd, the type species, is redescribed and illustrated, and a revised generic diagnosis presented.

9907-69
PALEARCTIC SPECIES FROM THE GENUS PHYMATA LATREILLE, 1802 (HEM. HET. REDUVIIDAE). (RUS)
M Josifov
Bulgarska Akad Nauk Zool Inst Muz Izv 26:29-32
1968 410.9 B872I
Insect taxonomy, Reduviidae.

9908-69
THE SUBGENUS PERSICARGAS (IXODOIDEA, ARGASIDAE, ARGAS). 7. A. (P.) WALKERAE, NEW SPECIES, A PARASITE OF DOMESTIC FOWL IN SOUTHERN AFRICA.
M N Kaiser H Hoogstraal
Entomol Soc Amer Ann 62(4):885-889
Jul 1969 420 EN82
Argas, Insect taxonomy, Parasitic insects, Poultry, Zoogeography.

9909-69
A REVISION OF THE PSEUDOMORPHACRIDINI (ORTHOPTERA: ACRIDOIDEA: PYRGOMORPHIDAE).
D K M Kevan
Oriental Insects 2(2):141-154 MAP
Jun 1968 QL461.O7
Insect identification, Insect taxonomy, Orthoptera, Pyrgomorphidae, Zoogeography.

9910-69
A NEW SPECIES OF FICALBIA (RAVENALITES) FROM CAMBODIA (DIPTERA: CULICIDAE).
J M Klein
Entomol Soc Wash Proc 71(2):215-217
Jun 1969 420 W27
Culicidae, Ficalbia, Insect morphology, Insect taxonomy, Zoogeography.

9911-69
MITES OF THE SUPER-FAMILY GAMASOIDEA ON MICROMAMMALIA IN THE WESTERN BALKAN RANGE. (RUS)
M Koyumdjieva
Bulgarska Akad Nauk Zool Inst Muz Izv 26:47-49
1968 410.9 B872I
Acarina, Mammals, Surveys. English abstract.

9912-69
OCHROMOLOPIS ICTELLA HB. (LEPIDOPTERA, EPERMENIIDAE) IN FINLAND, PROBABLY TRANSPORTED BY WINDSTORM. (GE)
H Krogerus
Notulae Entomol 49(2):86-88 MAP
1969 421 N84
Epermeniidae, Insect dissemination, Insect morphology, Wind dispersal.

9913-69
AMPHIPYRA PYRAMIDEA L. AND A. BERBERA RUNGS IN FINLAND (LEPIDOPTERA, NOCTUIDAE). (GE)
H Krogerus
Notulae Entomol 49(2):83-85
1969 421 N84
Amphipyra herbera, Amphipyra pyramidea, Insect morphology, Zoogeography.

9914-69
A NEW SPECIES OF MESIDIA (HYMENOPTERA: APHELINIDAE) FROM CALIFORNIA.
C F Lagace
Entomol Soc Amer Ann 63(3):530-531
May 1969 420 EN82
Aphelinidae, Insect taxonomy.

9915-69
ON SERGENTOMYIA RUTTLEDGEI (LEWIS KIRK) AND S. SCHWETZI (ADLER, THEODOR PARROT) (DIPTERA: PSYCHODIDAE).
D J Lewis G R Barnley D M Minter
Roy Entomol Soc London Proc Ser B Taxonom 38(3-4):53-60 REF
06 May 1969 420 L84PB
Insect taxonomy, Psychodidae.

9916-69
NEW MYMARIDAE FROM CENTRAL AFRICA. (HYMENOPTERA: CHALCIDOIDEA). (FR)
G Mathot
Rev Zool Bot Afr 78(3/4):265-276
30 Dec 1968 410 R26
Acmopolynema, Anagrus, Hymenenoptera, Insect identification, Insect taxonomy, Lymaenon, Mymaridae, Zoogeography. Several new species of the three genera are described.

9917-69
A NEW SPECIES OF EPIDERMOPTES FROM A SOUTH DAKOTA PHEASANT (ACARINA: EPIDERMOPTIDAE).
B McDaniel G C Parikh
Kans Entomol Soc J 42(1):34-38
Jan 1969 420 K13
Epidermoptidae, Insect taxonomy.

9918-69
A NEW SPECIES OF CHRYSOMELA (COLEOPTERA, CHRYSOMELIDAE)-AN IMPORTANT COMPONENT OF THE TAIMYR PENINSULA BIOCOENOSES. (RUS)
I. N Medvedev Yu I Chernov
Zool Zhur 48(4):532-537
Apr 1969 410 R92
Chrysomelidae, Insect ecology, Insect taxonomy. English abstract

9919-69
THE GENUS HETEROCONIS ENDERLEIN, 1905 (NEUROPTERA, CONIOPTERYGIDAE).
M Meinander
Notulae Entomol 49(2):49-68
1969 421 N84
Coniopterygidae, Insect taxonomy, Zoogeography.

9920-69
FURTHER RECORDS OF THE DISTRIBUTION OF PETROBIA LATENS (MULLER) (ACARINA: TETRANYCHIDAE), A PEST OF WHEAT IN INDIA TOGETHER WITH THE DESCRIPTION OF A NEW SPECIES OF PREDATORY MITES ON THE SAME.
M G R Menon S Ghai
Indian J Entomol 30(1):77-79
Mar 1968 420 IN23
Petrobia latens, Predaceous insects, Wheat, Zoogeography.

9921-69
THREE NEW RECORDS OF BRYOBIINAE FROM INDIA (ACARINA: TETRANYCHIDAE).
Menon S Ghai
Indian J Entomol 30(1):88-89
Mar 1968 420 IN23
Surveys, Tetranychidae.

9922-69
PRESENTATION OF AQUATIC HETEROPTERAN FAUNA II, AQUATIC HETEROPTERA FROM EVORA, PORTUGAL. (FR)
N Nieser
Entomol Ber 29(1):2-6 REF
01 Jan 1969 420 N38B
Aquatic insects, Heteroptera, Surveys. English abstract.

9923-69
A NEW DANAUS SPECIES FROM CENTRAL-CELEBES.
E J Nieuwenhuis
Entomol Ber 29(1):18-19
01 Jan 1969 420 N38B
Danaus, Insect taxonomy.

9924-69
THE STRUCTURE OF POLYMORPHIC SPECIES OF THE SUBGENUS AUTOLETHRUS (COLEOPTERA, SCARABAEIDAE) FROM SOUTH KAZAKHSTAN. (RUS)
G V Nikolajev
Zool Zhar 48(4):524-531
Apr 1969 410 R92
Insect taxonomy, Polymorphism, Scarabaeidae. English abstract.

9925-69
CORRECTION TO THE KEY OF THE EUROPEAN GYRINUS SPECIES. (GE
G Ochs
Entomol Bl 64(1):64
15 Jul 1968 421 EN833
Gyrinidae, Gyrinus, Insect taxonomy.

9926-69
NEW MIMARIDS OF ARGENTINA (HYMENOPTERA; MYMARIDAE). (SP)
A A Oglohlin
Acta Zool Lilloana 22:183-196
1967 410 AC82
Insect taxonomy, Mymaridae. English abstract.

9927-69
THE FAMILY LEPTOGASTRIDAE (DIPTERA).
H Oldroyd
Roy Entomol Soc London Proc Ser B Taxonom 38(1-2):27-31
18 Mar 1969 420 L84PB
Asilidae, Insect names, Insect taxonomy, Leptogaster.

9928-69
BULGARIAN GRASSHOPPERS (HOMOPTERA: AUCHENORRHYNCHA). (RUS)
P Pelov
Bulgarska Akad Nauk Zool Inst Muz Izv 26:159-171 REF
410.9 B8721
Homoptera, Insect taxonomy, Surveys. German abstract.

9929-69
THE BUTTERFLIES OF LORD HOWE ISLAND.
J V Peters
63-64
24 Apr 1969 410.9 N48P
Lepidoptera, Surveys. Proceedings for the years 1967-68

9930-69
THREE NEW SPECIES OF HETEROMENOPON (MALLOPHAGA: MENOPONIDAE) FROM BRAZILIAN AND AUSTRALIAN PARROTS.
R D Price
Entomol Soc Amer Ann 63(3):563-566
May 1969 420 EN82
Insect taxonomy, Menoponidae, Parrots.

9931-69
A NEW NORTH PALEARCTIC STENUS: ST. (NESTUS) CORIACEUS N. SP. (COLEOPTERA, STAPHYLINIDAE) (58. CONTRIBUTION TO THE KNOWLEDGE OF THE STENIDS). (GE)
V Puthz
Notulae Entomol 49(2):80-82
1969 421 N84
Insect taxonomy, Staphylinidae.

9932-69
FIRST RECORD OF AEWASIUS ADVENA COMPERE (ENCYTRIDAE: HYMENOPTERA) FROM INDIA AS A PARASITE OF FERRISIA VIRGATA CKLL..
R R Rawat B N Modi
Indian J Entomol 30(1):85
Mar 1968 420 IN23
Encyrtidae, Ferrisia virgata, Parasitic insects, Surveys.

9933-69
A NEW GENUS AND KEY TO THE SPECIES OF AUSTRALIAN STILBOPTERYGIDAE (NEUROPTERA).
E F Riek
Entomol Soc Aastralia (nsw) J 7(2):105-108
31 Dec 1968 423.92 EN84
Insect taxonomy, Neuroptera.

9934-69
SPIRACLES OF ADULT SCARABAEOIDEA (COLEOPTERA) AND THEIR PHYLOGENETIC SIGNIFICANCE. I. THE ABDOMINAL SPIRACLES.
P O Ritcher
Entomol Soc Amer Ann 62(4):869-880 REF
Jul 1969 420 EN82
Abdomen, Insect evolution, Insect names, Insect taxonomy, Lucanidae, Passalidae, Scarabacidae, Spiracles.

9935-69
NEOTROPICAL COCKROACHES OF THE EPILAMPRA ABDOMENNIGRUM COMPLEX; A CLARIFICATION OF THEIR SYSTEMATICS (DICTYOPEERA, BLATTARIA).
L M Roth A B Gurnet
Entomol Soc Amer Ann 63(3):617-627 REF
May 1969 420 EN82
Blattaria, Insect taxonomy, Neotropical Region.

9936-69
NEW SPECIES AND RECORDS OF NASUTITERMITINAE (ISOPTERA: TERMITIDAE) FROM AFRICA.
W A Sands
Roy Entomol Soc London Proc Ser B Taxonom 37(11-12):163-169 MAP
20 Dec 1968 420 L84PB
Insect taxonomy, Surveys, Termites, Zoogeography.

9937-69
DISTRIBUTION AND ESTABLISHMENT OF TETRASTICHUS INCERTUS IN THE EASTERN UNITED STATES.
R F W Schroder J L Huggans D J J Horn G York
Entomol Soc Amer Ann 62(4):812-815 MAP
Jul 1969 420 EN82
Surveys, Tetrastichus incertus, Zoogeography.
Tetrastichus incertus (Ratzeburg) (Hymenoptera: Eulophidae), a larval parasite of the alfalfa weevil, Hypera postica (Gyllenhall), has become established in 10 middle Atlantic and New England States since its initial release in New Jersey in 1960 and its subsequent release in 14 other States. The release sites and the dispersal and distribution in the Eastern United States are reported for the period from 1960 to June 1968.

9938-69
LYMANTRIIDAE--EAST VERSUS WEST AFRICA.
D G Sevastopulo
S London Entomol Natur Hist Soc Proc Trans 7(6,PT 1):15-17
Mar 1967 420 SO8
Insect taxonomy, Lymantriidae.

9939-69
LIMACODIDAE- EAST VERSUS WEST AFRICA.
D G Sevastopulo
S London Entomol Natur Hist Soc Proc Trans 9(4):98-99
Dec 1967 420 SO8
Insect taxonomy, Limacodidae.

9940-69
NEW SPECIES OF BEETLE MITES OF THE FAMILY CHAMDBATIDAE (ORIBATEI) FROM THE USSR. (RUS)
E S Shaldybida
Zool Zhur 48(4):518-523
Apr 1969 410 R92
Insect taxonomy, Mites, Oribatei. English abstract.

9941-69
MORDELLISTENA PUMILA GROUP IN FINLAND (COLEOPTERA, MORDELLIDAE). (SW)
H Silfverberg
Notulae Entomol 49(2):110

1969 421 N84
Mordellidae, Surveys, Zoogeography.

9942-69
SIPHONAPTERA FROM INARI, FINLAND.
W Sinclair
S London Entomol Natur Hist Soc Proc Trans 7(6,PT 1):13-14
Mar 1967 420 SO8
Insect taxonomy, Siphonaptera.

9943-69
APHID FAUNA OF MACEDONIA. (RUS)
D G Tashev
Bulgarska Akad Nauk Zool Inst Muz Izv 26:173-182
1968 410.9 B8721
Aphididae, Insect taxonomy, Surveys. German abstract.

9944-69
A NEW MALAYAN SPECIES OF THE ANT GENUS EPITRITUS AND A RELATED NEW GENUS FROM SINGAPORE (HYMENOPTERA: FORMICIDAE).
R W Taylor
Entomol Soc Australia (nsw) J 7(2):130-134
31 Dec 1968 423.92 EN84
Formicidae, Insect taxonomy.

9945-69
PHILONTHUS PARCUS SHARP (COL., STAPHYLINIDAE) IN BRITAIN.
C E Tottenham
S London Entomol Natur Hist Soc Proc Trans 7(6,PT 2):46-47
May 1967 420 SO8
Insect taxonomy, Staphylinidae.

9946-69
NEW BULGARIAN FAUNA OF PHYTOPHAGEOUS WASPS (SYMPHYTA, HYMENOPTERA). (RUS)
I B Vasilev
Bulgarska Akad Nauk Zool Inst Muz Izv 26:183-186
1968 410.9 B8721
Insect taxonomy, Phytophagous insects, Symphyta, Zoogeography. German abstract.

9947-69
A NEW NAME FOR THE GENUS CYRTOLABUS VAN DER VECHT (HYMENOPTERA, EUMENIDAE).
J VAN DER Vecht
Entomol Ber 29(1):1
01 Jan 1969 420 N38B
Eumenidae, Insect taxonomy, Nomenclature.

9948-69
SOME NEW RECORDS OF BUTTERFLIES FROM NEPAL.
S R Wadhi B Parshad
Indian J Entomol 30(1):92-93
Mar 1968 420 IN23
Lepidoptera, Surveys, Zoogeography.

9949-69
ADELPHOCORIS MINOR NOV. SPEC. (HETEROPTERA, MIRIDAE). (GE)
E Wagner
Notulae Entomol 49(2):105-107
1969 421 N84
Insect taxonomy, Miridae, Zoogeography.

9950-69
ADDITIONS TO THE GENUS ALLOEONOTUS FIEBER, 1878 (HETEROPTERA, MIRIDAE). (GE)
E Wagner
Notulae Entomol 49(2):108-110
1969 421 N84
Insect taxonomy, Miridae, Zoogeography.

9951-69
NEW ORTHOTYLUS AND PACHYLOPS SPECIES (HETEROPTERA, MIRIDAE). (GE)
E Wagner
Notulae Entomol 49(2):99-104
1969 421 N84
Insect taxonomy, Miridae, Zoogeography.

9952-69
SEVERAL GLOBICEPS-SPECIES (HETEROPTERA, MIRIDAE). (GE)
E Wagner
Notulae Entomol 49(2):89-98
1969 421 N84
Insect taxonomy, Miridae, Surveys.

9953-69
KEYS TO GENERA AND SOME SPECIES OF NEW ZEALAND LATHRIDIIDAE (COLEOPTERA).
J C Watt
New Zeal Entomol 4(2):49-67 REF
Apr 1969 421 N48
Insect taxonomy, Lathridiidae.

9954-69
HYPOCYPTUS NITIDUS PALM. (COL., STAPHYLINIDAE) IN THE JOY COLLECTION.
S A Williams
S London Entomol Natur Hist Soc Proc Trans 9(4):99
Dec 1967 420 SO8
Insect identification, Staphylinidae.

9955-69
QUEDIUS (MICROSAURUS) SCITUS (GRAV.) (COL., STAPHYLINIDAE) A TERATOLOGICAL SPECIMEN.
S A Williams
S London Entomol Natur Hist Soc Proc Trans 10(3):66
Aug 1967 420 SO8
Insect identification, Quedius, Staphylinidae.

9956-69
DESCRIPTION OF IMMATURE STAGES OF COREIDAE. 3. ARCHIMERUS ALTERNUS.
T R Yonke J T Medler
Entomol Soc Amer Ann 63(3):477-480
May 1969 420 EN82
Coreidae, Insect eggs, Insect taxonomy, Nymphs.

9957-69
DESCRIPTION OF IMMATURE STAGES OF COREIDAE. 1. EUTHOCHTHA GALEATOR.
T R Yonke J T Medler
Entomol Soc Amer Ann 63(3):469-473
May 1969 420 EN82
Coreidae, Insect eggs, Insect taxonomy, Nymphs.

PHYSIOLOGY AND BIOCHEMISTRY

9958-69
ON TWO NEW SPECIES OF TEREBRANTIAN THYSANOPTERA WITH REMARKS ON A NEW GENUS PELLOTHRIPS.
T N Ananthakrishnan
Oriental Insects 2(2):201-204
Jun 1968 QL461.O7
Insect identification, Insect taxonomy, Thysanoptera, Zoogeography.

9959-69
HELICOPTER SPRAYERS MAY RESCUE INFESTED FORESTS.
Anonymous
Agr Res 17(11):12
May 1969 1.98 AG84
Aerial spraying, Biological control (insects), Forest insects, Helicopters, Hemerocampa pseudotsugata, Insect diseases, Insect pests, Polyhedroses, Spraying equipment.

9960-69
ULTRASTRUCTURAL OBSERVATIONS ON THE BRANCHED RODS ASSOCIATED WITH SOME INSECT GRANULOSES.
H J Arnott K M Smith
J Invertebrate Pathol 13(3):345-350
May 1969 421 J826
Cytology, Electron microscopy, Granuloses, Insect diseases.

9961-69
LACTIC DEHYDROGENASE ISOZYMES IN THE GRASSHOPPER.
J N Aronson J R Fish F A Muckenthaler
Compar Biochem Physiol 24(2):657-659 REF
Feb 1968 444.8 C73
Electrophoresis, Insect biochemistry, Lactate dehydrogenase, Melanoplus differentialis, Muscles, Testes, Tissue extracts.

9962-69
IXODES PACIFICUS COOLEY AND KOHLS, 1943: ITS LIFE-HISTORY AND OCCURRENCE.
D R Arthur K R Snow
Parasitology 58(4):893-906 MAP REF
Nov 1968 448.8 P21
Animals, Insect biology, Ixodes, Life cycle, Surveys, Zoogeography.

9963-69
DESCRIPTION OF THE MALE, PUPA, AND LARVAL HABITAT OF NILOBEZZIA BREVICORNIS (DIPTERA: CERATOPOGONIDAE).
W R Atchley
Kans Entomol Soc J 42(1):54-57
Jan 1969 420 K13
Ceratopogonidae, Habitats, Insect morphology, Larvae, Pupae.

9964-69
STUDIES ON AN ISRAEL STRAIN OF ANAGYRUS PSEUDOCOCCI (GIRAULT) (HYM., ENCYRTIDAE). II. SOME BIOLOGICAL ASPECTS.
Z Avidov Y Rossler D Rosen
Entomophaga 12(2):111-118
1967 421 EN835
Anagyrus pseudococci, Insect behavior, Insect biology, Longevity, Planococcus citri, Reproduction.

9965-69
LIFE HISTORY AND HABITS OF SIALIS ROTUNDA AND S. CALIFORNICA IN WESTERN OREGON.
K M Azam N H Anderson
Entomol Soc Amer Ann 63(3):549-558 REF
May 1969 420 EN82
Insect biology, Insect ecology, Sialidae.

9966-69
SEASONAL CHANGES IN THE DISTRIBUTION OF THE MILLIPEDE CYLINDROIULUS PUNCTATUS (LEACH) IN DECAYING LOGS AND SOIL.
B Banerjee
J Anim Ecol 36(1):171-177 REF
Feb 1967 410 J826
Diplopoda, Habitats, Logs, Soil sampling.

9967-69
NOTE ON PROSPALTELLA AURANTII HOW. (HYM., APHELINIDAE), PARASITE OF QUADRASPIDIOTUS PYRI LICHT. IN THE MATITIME ALPS (HOM., DIASPIDINAE). (FR)
C Benassy H Bianchi
Entomophaga 12(2):181-186
1967 421 EN835
Aspidiotus pyri, Biological control (insects), Insect biology, Prospaltella aurantii. English abstract.

9968-69
INTRACELLULAR ACTIVITY IN CRICKET NEURONS DURING THE GENERATION OF BEHAVIOUR PATTERNS.
D R Bentley
J Insect Physiol 15(4):677-699 REF
Apr 1969 421 J825
Electrophysiology, Gryllus campestris, Insect behavior, Insect physiology, Nervous system.

9969-69
SINDBIS VIRUS MULTIPLICATION AND CALLIPHORA ERYTHROCEPHALA (MEIG.) METAMORPHOSIS. (FR)

A Berkaloff P Berreur P Cals
Acad Sci Compt Rend Ser D Sci Nat 264(11, 1ST SEMESTER):1545-1548
13 Mar 1967 505 P21
Calliphora vicina, Hormones, Insect diseases, Insect physiology, Metamorphosis, Sindbis virus.

9970-69
NOTES ON THE BIOLOGY OF DIATRAEOPHAGA STRIATALIS TOWNSEND, TACHINID PARASITE OF PROCERAS SACCHARIPHAGUS BOJ. (FR)
M Betbeder-Natihet
Entomophaga 12(2):161-173
1967 421 EN835
Diatraeophaga striatalis, Insect biology, Insect physiology, Predaceous insects, Proceras saccharipliagus.

9971-69
OVIPOSITION BEHAVIOUR OF THE DESERT LOCUST (SCHISTOCERCA GREGARIA FORSK.).
K R Bhatia S C Harjai
Indian J Entomol 30(2):109-112 REF
Jun 1968 420 IN23
Insect behavior, Insect biology, Oviposition, Schistocerca gregaria.

9972-69
AN INTEGRATED TECHNIQUE TO STUDY THE EFFECTS OF FUMIGANTS ON RESPIRATION OF INSECTS.
S S Bhatia
J Stored Prod Res 5(1):57-67 REF
May 1969 421 J829
Acetone, Chloroform, Ethyl ether, Fumigants, Insect physiology, Insect respiration, Methodology, Periplaneta americana.

9973-69
QUANTITATIVE DETERMINATION OF URIC ACID IN INSECT FECES BY LITHIUM CARBONATE EXTRACTION AND THE ENZYMATIC-SPECTROPHOTOMETRIC METHOD.
A K Bhattacharya G P Waldbauer
Entomol Soc Amer Ann 62(4):925-927 REF
Jul 1969 420 EN82
Methodology, Quantitative analysis, Statistical analysis, Tenebrio molitor, Tenebroides mauritanicus, Uric acid.

9974-69
STUDIES ON BROOD REARING ACTIVITY OF INDIAN HONEY BEE APIS INDICA F. UNDER DELHI CONDITIONS.
D S Bisht N C Pant
Indian J Entomol 30(3):223-228
Sep 1968 420 IN23
Apiculture, Apis indica, Feeding, Insect nutrition, Insect physiology, Insect rearing.

9975-69
RECOVERY OF MITES FROM PEAT AND MINERAL SOILS USING A NEW FLOATATION METHOD.
W Block
J Anim Ecol 36(2):323-327 REF
Jun 1967 410 J826
Flotation, Methodology, Mites, Peat, Soil sampling.

9976-69
EFFECT OF TEMPERATURE ON THE DEVELOPMENT OF MUSTARD SAWFLY, ATHALIA PROXIMA KLUG. (HYMENOPTERA: TENTHREDINIDAE).
J K Bogawat
Indian J Entomol 30(1):80-82
Mar 1968 420 IN23
Athalia proxima, Insect biology, Insect physiology, Temperature, Tenthredinidae.

9977-69
A NEW CARADRINA O. OF SPAIN- CONTRIBUTIONS TO THE STUDY NOCTUIDAE TRIFINAE, 158(1). (FR)
C Boursin
Entomops (9):29-31
28 Sep 1967 QL461.E53
Insect identification, Insect taxonomy, Noctuidae.

9978-69
OBSERVATIONS ON THE LIFE HISTORY AND BIONOMICS OF OLIGOTOMA CEYLONICA CEYLONICA ENDERLEIN (OLIGOTOMIDAE, EMBIOPTERA), COMMENSAL IN THE NEST OF THE SOCIAL SPIDER STEGODYPHUS SARASINORUM KARSCH.
B L Bradoo
Bombay Natur Hist Soc J 64(3):447-454 REF
Dec 1967 513 B63
Arancida, Embioptera, Insect behavior, Insect biology, Insect nests, Oligotomidae, Symbiosis.

9979-69
WASPS ATTACKING OTHER INSECTS.
F D Buck
S London Entomol Natur Hist Soc Proc Trans 9(4):97
Dec 1967 420 SO8
Diptera, Hymenoptera, Predaceous insects.

9980-69
METEORUS VERSICOLOR WESM. VAR. DECOLORATUS RUTHE (HYM., BRACONIDAE), A NEW PARASITE OF THAUMETOPOEA PITYOCAMPA SCHIFF. (LEP., THAUMETOPOEIDAE). (FR)
D Cadahia G Demolin E Biliotti
Entomophaga 12(4):355-361 MAP REF
1967 421 EN835
Braconidae, Insect biology, Natural control (insects), Notodontidae. English abstract.

9981-69
LOCUST WIND RECEPTORS. I. TRANSDUCER MECHANICS AND SENSORY RESPONSE.
J M Camhi
J Exp Biol 50(2):335-348 REF
Apr 1969 442.8 B77
Aerodynamics, Electrophysiology, Insect flight, Insect physiology, Schistocerca gregaria, Sense organs, Wind.

9982-69
LOCUST WIND RECEPTORS. III. CONTRIBUTION TO FLIGHT INITIATION AND LIFT CONTROL.
J M Camhi
J Exp Biol 50(2):363-373
Apr 1969 442.8 B77
Aerodynamics, Insect flight, Insect physiology, Schistocerca gregaria, Sense organs.

9983-69
LOCUST WIND RECEPTORS. II. INTERNEURONES IN THE CERVICAL CONNECTIVE.
J M Camhi
J Exp Biol 50(2):349-362
Apr 1969 442.8 B77
Electrophysiology, Insect flight, Insect physiology, Nervous system, Schistocerca gregaria, Sense organs, Wind.

9984-69
THE UTILIZATION OF C14-LABELLED ADENOSINE DIPHOSPHATE DURING THE IN VITRO RESPIRATION OF HOUSEFLY SARCOSOMES.
G C Carney
Life Sci 8(10,PT 2):453-464 REF
15 May 1969 442.8 L62
Adenosine pyrophosphates, Insect biochemistry, Musca domestica, Radioactive tracers, Sarcosomes, Tissue culture.

9985-69
AN INTERESTING CASE OF ADAPTATION TO VARIOUS HOSTS ON THE PART OF AN EGG PARASITE. (IT)
B Cavalcaselle
Entomophaga 13(4):319-322
1968 421 EN835
Aphelinidae, Centrodora italica, Cerambycidae, Eggs, Insect adaptation, Natural control (insects), Populus, Predaceous insects, Saperda carcharias. English abstract.

9986-69
POLLENS COLLECTED BY SPECIES OF ANDRENA (HYMENOPTERA: APIDAE).
V H Chambers
Roy Entomol Soc London Proc Ser A Gen Entomol 43(10-12):155-160
31 Dec 1968 420 L84PA
Andrena, Palynology, Surveys.

9987-69
THE EXTERNAL MORPHOGENESIS OF GRASSHOPPER EMBRYOS.
R F Chapman F Whitham
Roy Entomol Soc London Proc Ser A Gen Entomol 43(10-12):161-169 REF
31 Dec 1968 420 L84PA
Acrididae, Embryology, Insect eggs, Insect physiology, Temperature.

9988-69
REARING OF THE MAIZE STEM BORER, CHILO ZONELLUS SWINHOE ON ARTIFICIAL DIET.
S M Chatterji K H Siddiqui V P S Panwar G C Sharma W R Young
Indian J Entomol 30(1):8-12
Mar 1968 420 IN23
Chilo zonellus, Insect nutrition, Insect rearing.

9989-69
ON THE ODOUR COMPONENTS OF THE STINK OF TWO HETEROPTERAN BUGS OF INDIA.
D K Choudhuri K K Das
Indian J Entomol 30(3):203-208 REF
Sep 1968 420 IN23
Insect biochemistry, Leptocorisa varicornis, Pentatomidae, Secretion.

9990-69
A COMPARATIVE BIOLOGICAL STUDY OF THREE CEROPLASTES SPECIES (HEM. COCCIDEAE) AND THEIR NATURAL ENEMIES.
C J Cilliers
S Afr Dep Agr Tech Serv Entomol Mem 13:1-59 REF
Aug 1967 423.92 SO8
Ceroplastes, Eublemma, Parasitism, Tetrastichus.

9991-69
THE NEUTRAL LIPIDS FROM VARIOUS ORGANS OF THE TERMITE MACROTERMES GOLIATH.
S H W Cmelik
J Insect Physiol 15(5):839-849 REF
May 1969 421 J825
Chromatography, Insect biochemistry, Lipids, Termites.

9992-69
CORN STUNT VECTOR LEAFHOPPER ATTRACTANCY TO AND OVIPOSITION PREFERENCE FOR HYBRID DENT CORN. II. GRAMINELLA NIGRIFRONS.
H L Collins H N Pitre
Entomol Soc Amer Ann 62(4):773-775 REF
Jul 1969 420 EN82
Corn, Crop varieties, Graminella nigrifrons, Oviposition, Plant disease resistance, Stunt, Virus diseases (plants).

On the basis of leafhopper counts and rate of egg deposition corn stunt susceptible hybrids in general were not preferred over hybrids exhibiting resistance when the leafhoppers were given a choice of hybrids in a field cage. Further, no significant differences in egg laying were obtained when females were continued on individual hybrids an not given a choice of oviposition sites.

9993-69
BIOCHEMICAL STUDY OF PLODIA INTERPUNCTELLA (HBN.) (LEPIDOPTERA) I-- VARIATIONS OF BODY WEIGHT, WATER CONTENT, AND DRY MATTER CONTENT. (FR)
G Couture L Huot
Natur Can 94(4,JUL-AUG):437-446 REF
Aug 1967 410 N216

Development, Insect physiology, Larvae, Plodia interpunctella, Water. English abstract.

9994-69
VARIATIONS IN FREE AMINO ACIDS IN THE LARVAE AND PUPAE OF CHILO ZONELLUS.
K Dang K L Doharey
Indian J Entomol 30(3):246-247
Sep 1968 420 IN23
Amino acids, Chemical analysis, Chilo zonellus, Insect biochemistry, Larvae, Pupae.

9995-69
THE INFLUENCE OF THE REARING TEMPERATURE ON LARVAL AND PUPAL MORTALITY AND THE DURATION OF DEVELOPMENT OF DROSOPHILA. (FR)
J David M F Clavel
Natur Can 94(2,MAR-APR):209-219 REF
Apr 1967 410 N216
Drosophila, Insect physiology, Insect rearing, Larvae, Mortality, Pupae, Temperature. English abstract.

9996-69
THE EPHIPPIGERINAE (ORTHOPTERA, TETTIGONIIDAE) OCCASIONAL BUT IMPORTANT PREDATORS OF THAUMETOPOEA PITYOCAMPA SCHIFF. (FR)
G Demolin J C Delmas
Entomophaga 12(4):399-401
1967 421 EN835
Natural control (insects), Predaceous insects, Tettigoniidae, Thaumetopeinid caterpillar. English abstract.

9997-69
ACTION OF HONEY BEE VENOM ON DEVELOPMENT OF EPITHELIAL CELLULAR CULTURES OF MONKEY'S KIDNEYS. (FR)
A Derevici V Dima
Paris Soc Biol Compt Rend 160(7):1378-1382
14 Jan 1967 442.9 P21
Bee venom, Cytopathology, Development, Kidneys, Monkeys, Tissue culture, Toxicology.

9998-69
A NOTE ON THE OCCURRENCE OF FRUIT FLY MAGGOTS OF DACUS CUCURBITAE COQ. IN CECIDOMYIID GALLS OF COCCINIA INDICA IN ANDHRA PRADESH.
E Dharmaraju
Indian J Entomol 30(1):87
Mar 1968 420 IN23
Cecidomyiidae, Dacus cucurbitae, Insect biology, Plant galls.

9999-69
EFFECT OF TEMPERATURE ON WATER ABSORPTION, DEVELOPMENT, AND HATCHING IN EGGS OF THE PRAIRIE GRAIN WIREWORM, CTENICERA DESTRUCTOR.
J F Doane
Entomol Soc Amer Ann 63(3):567-572
May 1969 420 EN82
Absorption, Ctenicera aeripennis destructor, Insect eggs, Insect physiology, Temperature, Water.

10000-69
ELM SPANWORM EYE SIZE DEPENDS UPON SEX AND DIET.
A T Drooz
Entomol Soc Amer Ann 63(3):561-562
May 1969 420 EN82
Ennomos subsignarius, Eyes, Insect morphology, Insect nutrition.

The eyes of the Ennomos subsignarius (Hubner) are larger in length, width, and depth than those of the female. When larvae were reared on pignut hickory, Carya glabra (Mill.) Sweet, the eyes of those were larger than those of spanworms reared on a diet of northern red oak, Quercus rubra L. Foliage condition also generally affected eye size. Greater measurements accrued to those fed juvenile (tender) foliage throughout their larval life than to those fed normal foliage.

10001-69
THE LIFE HISTORIES AND DRIFTING OF THE PLECOPTERA AND EPHEMEROPTERA IN A DARTMOOR STREAM.
J M Elliott
J Anim Ecol 36(2):343-362 REF
Jun 1967 410 J826
Aquatic insects, Ephemeroptera, Insect biology, Insect traps, Plecoptera.

10002-69
FEMALE SPECIFIC PROTEIN: BIOSYNTHESIS CONTROLLED BY CORPUS ALLATUM IN LEUCOPHAEA MADERAE.
F Engelmann
Science 165(3891):407-409 REF
25 Jul 1969 470 SCI2
Corpora allata, Electrophoresis, Hormones, Leucophaea maderae, Oogenesis, Proteins.

10003-69
SPERMATOCYTE GRANULES IN DROSOPHILA MELANOGASTER.
J Erickson A B Acton
Can J Genet Cytol 11(1):1530168 REF
Mar 1969 443.8 C16
Drosophila melanogaster, Electron microscopy, Insect diseases, Insect genetics, Insect histology, Rickettsia, Spermatocytes.

10004-69
COLONIZATION OF AN ISLAND BY THE BUFFALO FLY, HAEMATOBIA EXIGUA.
P Ferrar
Australian Vet J 45(6):290-292 MAP
Jun 1969 41.8 AU72
Haematobia, Insect dissemination, Insect outbreaks, Population.

10005-69
THE INFLUENCE OF ECOLOGICAL AND GENETIC FACTORS ON THE BIRTH AND DEATH OF MACROCHELES ROBUSTULUS (BERLESE,1904). (IT)
A Filipponi B Mosna
Ist Super Sanit Ann 4(5-6):551-571 REF
1968 R65.I8
Insect ecology, Insect genetics, Longevity, Macrocheles, Mortality, Parasitic insects, Population, Temperature.

10006-69
DEVIATE-ONTOGENIES IN THE APHELINID MALE (HYMENOPTERA) ASSOCIATED WITH THE OVIPOSITIONAL BEHAVIOR OF THE PARENTAL FEMALE.
S E Flanders
Entomophaga 12(5):415-427 REF
1967 421 EN835
Aphelinidae, Insect behavior, Insect biology, Insect ecology, Insect physiology, Oviposition, Reproduction.

10007-69
ABUNDANCE OF COTTONTAILS AND THEIR FLEAS AT RED BLUFF RANCH, NEW MEXICO.
D I. Forcom C D Rael J R Wheeler B E Miller
J Wildlife Manage 33(2):422-424
Apr 1969 410 J827
Hoplopsyllus, Rabbits, Siphonaptera, Surveys.

10008-69
RECENT RECORDS OF MIGRANT LEPIDOPTERA IN TARANAKI.
K J Fox
New Zeal Entomol 4(2):6-10
Apr 1969 421 N48
Insect identification, Insect migration, Lepidoptera, Surveys.

10009-69
THE INSECT PREDATORS OF THE PUPAL STAGE OF THE WINTER MOTH, OPEROPHTERA BRUMATA (L.) (LEPIDOPTERA: HYDRIOMENIDAE).
J H Frank
J Anim Ecol 36(2):375-389
Jun 1967 410 J826
Carabidae, Operophtera brumata, Population, Predaceous insects, Pupae, Radioactive tracers, Staphylinidae.

10010-69
THE EFFECT OF PUPAL PREDATORS ON A POPULATION OF WINTER MOTH, OPEROPHTERA BRUMATA (L.) (HYDRIOMENIDAE).
J H Frank
J Anim Ecol 36(3)611-621
Oct 1967 410 J826
Carabidae, Elateridae, Mammals, Mortality, Operopbtera brumata, Population, Predaceous insects, Pupae, Staphylinidae.

10011-69
STUDIES ON THE ECOLOGY OF LARVAL TIPULINAE (DIPTERA, TIPULIDAE).
B E Freeman
J Anim Ecol 36(1):123-146 MAP REF
Feb 1967 410 J826
Insect ecology, Larvae, Surveys, Tipulidae.

10012-69
FINE STRUCTURES OF MEROZOITES OF BABESIA BIGEMINA IN THE OVARIES OF BOOPHILUS MICROPLUS AND BOOPHILUS DECOLORATUS. (GE
K Friedhoff E Seboltyseck
Z Parasitenk 32(3):266-283 REF
16 Jun 1969 442.8 Z33F
Babesia bigemina, Boophilus decoloratus, Boopbilus microplus, Cytology, Electron microscopy, Insect diseases, Ovaries. English abstract.

10013-69
MICROSCOPICAL STUDIES ON THE DEVELOPMENT OF BABESIA OVIS IN RHIPICEPHALUS BURSA (IXODOIDEA). I. DEVELOPMENT IN FEMALE TICKS AFTER REPLETION. (GE)
K Friedhoff
Z Parasitenk 32(3):191-219 REF
16 Jun 1969 442.8 Z33F
Babesia ovis, Insect diseases, Insect histology, Insect vectors, Microscopy, Rhipicepbalus bursa. English abstract.

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PHYSICO-ORGANIC CHEMICAL APPROACH TO THE MODE OF ACTION OF ORGANOPHOSPHORUS INSECTICIDES.
T R Fukuto
Residue Rev 25:327-340 REF
1969 389.9 R314
Animal physiology, Cholinesterases, Insect biocbemistry, Insect physiology, Organophospborus compounds, Toxicology.

10015-69
MORPHOLOGY AND BIOLOGY OF A NEST-PRODUCING MITE, BAKERICHEYLA CHANAYI (ACARINA: CHEYLETIDAE).
D P Furman O E Sousa
Entomol Soc Amer Ann 62(4):858-863
Jul 1969 420 EN82
Cheyletidae, Insect biology, Insect morpbology, Insect nests, Parasitic insects.

10016-69
THE BEHAVIOR OF NEWLY EMERGED BOLL WEEVILS.
F R Gilliland C E McCoy
Entomol Soc Amer Ann 63(3):602-605
May 1969 420 EN82
Anthonomus grandis, Feeding, Insect behavior, Insect physiology.

10017-69
ECOLOGICAL RESEARCH IN THE LAMTO SAVANNAH (IVORY COAST): ANNUAL CYCLE OF THE POPULATION SIZE AND BIOMASSES OF ARTHROPODS IN R-BACEOUS STRATUM. (FR)
Y Gillon D Gillon
Terre Vie (3,JUL-SEP):262-277
Sep 1967 410.9 P21

Insect ecology, Phytophagous insects, Population. English abstract.

10018-69
HISTOLOGICAL, BEHAVIORAL, AND SYMPTOMATIC EFFECTS OF PENTAC ON TETRANYCHUS URTICAE.
J B Gingrich H T Streu
Entomol Soc Amer Ann 63(3):640-647 REF
May 1969 420 EN82
Acaricides, Insect behavior, Insect histology, Pentac, Tetranychus urticae.

10019-69
STUDY OF DENSONUCLEOSIS OF LEPIDOPTERA BY THE IMMUNOLOGICAL GEL DIFFUSION METHOD. (FR)
F Giran
Entomophaga 13(4):271-279 REF
1968 421 EN835
Galleria mellonella, Insect diseases, Serodiagnosis. English abstract.

10020-69
EXPERIMENTAL INFECTIONS WITH BACILLUS LARVAE. I. A STRAIN WITH A MORPHOLOGICAL MARKER.
T A Gochnauer J C M L'Arrivee
J Invertebrate Pathol 13(2):280-284 REF
Mar 1969 421 J826
Apis mellifera, Bacillus larvae, Flagella, Indicators (disease), Insect diseases, Morphology.

A marker strain of Bacillus larvae, isolated from naturally infected honey-bee larval remains, produced microscopically visible flagellar whips half the normal wavelength of whips of other strains, both in artificial culture and in inoculated honey-bee larvae. The strain thus may serve as a specific indicator of the presence and purity of infections in test larvae.

10021-69
COMPOSITIONS AND METHODS FOR REGULATING THE GROWTH OF PLANTS. PATENT 3,455,673.
H F Goonewardene B Loev
Us Patent Office Offic Gaz 864(3):903
15 Jul 1969 156.65 OF2
Carbamates, Patents, Plant regulators.

10022-69
ANTENNOPSIS GALLICA HEIM AND BUCHLI (HYPHOMYCETES: GLOEOHAUSTORIALES), AN ENTOMOGENOUS FUNGUS ON SUBTERRANEAN TERMITES IN FLORIDA.
R J Gouger J W Kimbrough
J Invertebrate Pathol 13(2):223-228 REF
Mar 1969 421 J826
Entomogenous fungi, Insect diseases, Microbiology, Reticulitermes flavipes, Termites.

Antennopsis gallica Heim and Buchli is reported for the first time in North America on the subterranean termites Reticulitermes virginicus Banks and Reticulitermes flavipes (Kollar) from north Florida. Details of the life cycle of this entomogenous fungus are described and illustrated.

10023-69
DIOXANE AND DIOXASPIRO DERIVATIVES AS ATTRACTANTS FOR MALE YELLOW-FEVER MOSQUITOES.
G G Grant
J Econ Entomol 62(4):786-789
15 Aug 1969 421 J822
Aedes aegypti, Attractants, Dioxane compounds, Dioxaspiro compounds, Organic compounds, Volatile substances.

10024-69
SPERMATOPHORES OF THE BLATTARIA.
P N Graves
Entomol Soc Amer Ann 63(3):595-602
May 1969 420 EN82
Blattaria, Insect evolution, Insect physiology, Reproduction, Spermatophores.

10025-69
HEXALURE, AN INSECT SEX ATTRACTANT DISCOVERED BY EMPIRICAL SCREENING.
N Green M Jacobson J C Keller
Experientia 25(7):682-683
15 Jul 1967 475 EX7
Attractants, Chemicals, Insect behavior, Methodology, Pectinophora gossypiella.

10026-69
DEVELOPMENT OF CHROTOGONUS TRACHYPTERUS (BLANCH.) (ORTHOPTERA: PYRSGOMORPHIDAE) IN RELATION TO DIFFERENT LEVELS OF TEMPERATURE AND HUMIDITY.
G S Grewal A S Atwal
Indian J Entomol 30(1):1-7
Mar 1968 420 IN23
Acrididae, Humidity, Insect physiology, Oviposition, Temperature.

10027-69
A STUDY OF A POCKET OF SCATTERED DESERT LOCUST POPULATION IN RAJASTHAN, INDIA DURING 1966 WITH SPECIAL REFERENCE TO EYE-STRIPES AND BIOMETRICS.
S C Harjai A J Dhillon M V Venkatesh
Indian J Entomol 30(2):137-153 REF
Jun 1968 420 IN23
Habitats, Insect morphology, Population, Schistocerca gregaria.

10028-69
THE INFLUENCE OF TEMPERATURE ON REPRODUCTION AND DEVELOPMENT IN FOUR SPECIES OF GLOSSINA (DIPTERA: MUSCIDAE).
J M B Harley
Roy Entomol Soc London Proc Ser A Gen Entomol 43(10-12):170-177 REF
31 Dec 1968 420 L84PA
Glossina, Insect physiology, Ovulation, Pupae, Temperature.

10029-69
COURSE OF SPORULATION OF BACILLUS POPILLIAE IN LIQUID MEDIUM CONTAINING ACTIVATED CARBON.
W C Haynes L J Rhodes
J Invertebrate Pathol 13(2):161-166
Mar 1969 421 J826
Bacillus popilliae, Bacterial diseases (insects), Culture media, Insect diseases, Popillia japonica.

10030-69
LABORATORY DEMONSTRATION OF A CHEMICAL SEX ATTRACTANT IN COSTELYTRA ZEALANDICH (WHITE) (SCARABAEIDAE: COLEOPTERA).
R F Henzell M D Lowe H J Taylor E Boston
New Zealand J Sci 12(2):252-257
Jun 1969 514 N482
Costelytra zealandica, Insect behavior, Insect physiology, Scarabaeidae, Sex attractants.

10031-69
THE TOXICITY TO TRIBOLIUM CASTANEUM (HERBST) (COLEOPTERA, TENEBRIONIDAE) OF MIXTURES OF PYRETHRINS AND PIPERONYL BUTOXIDE: FITTING A MATHEMATICAL MODEL.
P S Hewlett
J Stored Prod Res 5(1):1-9 REF
May 1969 421 J829
Mathematical analysis, Models, Piperonyl butoxide, Pyrethrum, Toxicology, Tribolium castaneum.

10032-69
MEDITERRANEAN FRUIT FLIES AND MELON FLIES TRAPPED AT VARIOUS HEIGHTS WITH SYNTHETIC LURES.
F R Holbrook M S Fujimoto
J Econ Entomol 62(4):962-963
15 Aug 1969 421 J822
Attractants, Ceratitis capitata, Chlordane, Chlorinated hydrocarbons, Cue-lure, Dacus cucurbitae, Fruit, Insect traps, Lindane, Naled, Organophosphorus compounds, Trimedlure, Vegetables. Traps placed from 1 to 15 feet above ground in fruit and truck crop area.

10033-69
STUDIES AND SUGGESTIONS ON THE BEHAVIOUR OF MOTHS AT LIGHT.
J D Holloway
S London Entomol Natur Hist Soc Proc Trans 7(6,PT 2):31-45 REF
May 1967 420 SO8
Aging, Insect behavior, Insect migration, Light, Moths, Population.

10034-69
IN VITRO COLONIZATION OF THE GOAT BITING LICE, BOVICOLA CRASSIPES AND B. LIMBATA.
D E Hopkins W F Chamberlain
Entomol Soc Amer Ann 62(4):826-828
Jul 1969 420 EN82
Bovicola, Insect biology, Insect nutrition, Insect rearing, Mallophaga.

10035-69
TEMPERATURE EFFECTS ON EMBRYONIC DEVELOPMENT IN INSECTS.
R W Howe
Annu Rev Entomol 12:15-42 REF
1967 421 AN72
Bibliography, Insect eggs, Insect morphology, Insect physiology, Reviews, Temperature.

10036-69
LETHARGY, A NEW VIRUS OF MELOLONTHA MELOLONTHA L. LARVAE (COLEOPTERA, SCARABAEIDAE). (FR)
B Hurpin C Vago P Robert G Meynadier
Entomophaga 12(3):311-315
1967 421 EN835
Insect diseases, Larvae, Melolontha melolontha, Viruses. English abstract.

10037-69
METEOROLOGICAL ASPECTS OF INSECT MIGRATIONS.
G W Hurst
Endeavour 28(104):77-81 REF
May 1969 472 EN2
Insect migration, Myzus persicae, Phytometra biloba, Schistocerca gregaria, Spodoptera exigua.

10038-69
MYXOMYCETES AS FOOD FOR OTHER ORGANISMS.
B Ing
S London Entomol Natur Hist Soc Proc Trans 7(6,PT 1):18-23 REF
Mar 1967 420 SO8
Insect nutrition, Myxomycetes.

10039-69
DESCRIPTION, BIOLOGY, AND IMPORTANCE OF A NEW SPECIES OF ALLANTONEMATIDAE (NEMATODA), PARASITE OF THE APHIDIPHAGOUS COCCINELLIDAE: PARASITYLENCHUS COCCINELLINAE, N. SP. (FR)
G Iperti D. van Waerebeke
Entomophaga 13(2):107-119 REF
1968 421 EN835
Allantonematidae, Biology, Coccinellidae, Nematodes, Physiology, Taxonomy. English abstract.

10040-69
LABORATORY STUDIES OF EUCELATORIA ARMIGERA, A TACHINID PARASITE OF HELIOTHIS SPP.
C G Jackson D E Bryan R Patana
J Econ Entomol 62(4):907-909 REF
15 Aug 1969 421 J822
Eucelatoria armigera, Heliothis, Insect biology, Insect rearing, Parasitic insects, Tachinidae, Temperature, Zoogeography. Hawaiian records erroneous.

10041-69
LEACHING OF THE NUCLEAR-POLYHEDROSIS VIRUS OF TRICHOPLUSIA NI FROM SOIL.
R P Jaques
J Invertebrate Pathol 13(2):256-263
Mar 1969 421 J826

Insect diseases, Nuclear polyhedrosis virus, Soil leaching, Trichoplusia ni.

10042-69
THE ULTRASTRUCTURE OF THE BRAIN OF THE INSECT NOTONECTA GLAUCA L.
H Jarnicka-Stanios
Zool Pol 19(1):133-142 REF
1969 410 Z712
Brain, Insect morphology, Notonecta.

10043-69
STUDIES ON THE SUSCEPTIBILITY OF DIFFERENT STAGES OF BAGRADA CRUCIFERARUM KIRKALDY TO SOME ORGANIC INSECTICIDES.
H C Joshi C L Kaul
Indian J Entomol 30(2):180-181
Jun 1968 420 IN23
Benzene hexachloride, Carbamates, Carbaryl, Chlorinated hydrocarbons, Dichlorvos, Endrin, Insect physiology, Insecticides, Organic compounds, Organophosphorus compounds, Parathion, Pentatomidae, Trichlorfon.

10044-69
A SIMPLE STARCH-GEL ELECTROPHORETIC METHOD TO INVESTIGATE ESTERASE INHIBITION BY COMMON ORGANIC INSECTICIDES.
A M Kadoum
Bull Environ Contamination Toxicol 4(2,MAR-APR):80-87
Apr 1969 RA1270.P35A1
Blood proteins, Electrophoresis, Esterases, Inhibitors, Insect biochemistry, Organophosphorus compounds, Tenebrio molitor.

10045-69
BIOLOGY OF APANTELES CHILONIS AND A. FLAVIPES (HYMENOPTERA: BRACONIDAE), PARASITES OF CHILO SUPPRESSALIS.
H Kajita E F Drake
Mushi 42(14):163-179 REF
31 Mar 1969 421 M97
Apanteles chilonis, Apanteles flavipes, Biological control (insects), Chilo suppressalis, Insect biology, Insect rearing.

10046-69
A NEW PYRALID LEAF ROLLER, PHOSTRIA SP. ON SUGARCANE.
A N Kalra H David D K Banerji
Indian J Entomol 30(2):182
Jun 1968 420 IN23
Insect outbreaks, Pyralidae, Sugarcane.

10047-69
BIOLOGY OF THE BILLBUG SPHENOPHORUS VENATUS CONFLUENS, A NEW PEST OF ORCHARDGRASS.
J A Kamm
J Econ Entomol 62(4):808-812
15 Aug 1969 421 J822
Crop yields, Dactylis glomerata, Grasses, Insect behavior, Insect biology, Insect eggs, Insect nutrition, Insect pests, Larvae, Ovulation, Pupae, Sex behavior, Sphenophorus venatus confluens.

10048-69
ESTIMATION AND DISSIPATION OF PARATHION RESIDUE FROM THE CROP OF INDIAN RAPE SEED.
V. S. Kavadia R. Lal
Indian J Entomol 30(2):113-118 REF
Jun 1968 420 IN23
Biological assay, Bird rape, Drosophila melanogaster, Insecticide residues, Insecticides, Organophosphorus compounds, Parathion.

10049-69
LIFE HISTORY AND DAMAGE OF THE PINE ROOT TIP WEEVIL, HYLOBIUS RHIZOPHAGUS, IN WISCONSIN.
W H Kearby D M Benjamin
Entomol Soc Amer Ann 62(4):838-843 MAP
Jul 1969 420 EN82
Hylobius rhizophagus, Insect biology, Life cycle, Pinus, Plant injuries.

10050-69
SPACED-OUT GREGARIOUSNESS IN SYCAMORE APHIDS DREPANOSIPHUM PLATANOIDES (SCHRANK) (HEMIPTERA, CALLAPHIDIDAE).
J S Kennedy L Crawley
J Anim Ecol 36(1):147-170 REF
Feb 1967 410 J826
Acer pseudoplatanus, Callaphididae, Insect behavior, Population. With a statistical appendix.

10051-69
EXPERIMENTAL STUDIES ON DIAPAUSE IN STONEFLIES. III. EGGS OF BRACHYPTERA RISI (MORTON).
S G Khoo
Roy Entomol Soc London Proc Ser A Gen Entomol 43(10-12):141-146
31 Dec 1968 420 L84PA
Environmental effects, Insect eggs, Insect physiology, Plecoptera, Temperature.

10052-69
FORAGING GALLERIES OF THE FORMOSAN SUBTERRANEAN TERMITE, COPTOTERMES FORMOSANUS, IN LOUISIANA.
E G King W T Spink
Entomol Soc Amer Ann 63(3):536-542
May 1969 420 EN82
Coptotermes formosanus, Insect nests, Termites, Trees.

10053-69
WATER VAPOR SORPTION AND HUMIDITY RELATIONSHIPS IN LIPOSCELIS (INSECTA: PSOCOPTERA).
W Knulle R R Spadafora
J Stored Prod Res 5(1):49-55 REF
May 1969 421 J829
Humidity, Insect physiology, Liposcelidae, Sorption, Water.

10054-69
BIOLOGY OF AGROTHEREUTES TUNETHNUS HABER. (HYM., ICHNEUMONIDAE) AN ECTOPARASITE OF ORGYIA DUBIA TAUSCH. (LEP., LYMANTRIIDAE).
J Kugler Z Wollberg
Entomophaga 12(4):363-379 REF
1967 421 EN835
Ichneumonidae, Insect behavior, Insect biology, Lymantriidae.

10055-69
A MORE RECENT SENSILLARY TYPE ON THE ANTENNA OF FEMALE MOSQUITOES (AEDES AEGYPTI L.). (GE)
V Laeher
Experientia 25(7):768-769
15 Jul 1969 475 EX7
Aedes aegypti, Antennae, Insect morphology, Sense organs.

10056-69
MIGRATING BUTTERFLIES IN 1967 (TWENTIETH ANNUAL REPORT). (DU
B J Lempke
Entomol Ber 29(1):7-17
01 Jan 1969 420 N38B
Insect migration, Lepidoptera, Surveys. English abstract.

10057-69
PROTEINS IN THE SPERMATHECAE AND HAEMOLYMPH OF THE QUEEN BEE (APIS MELLIFICA L. VAR. LIGUSTICA SPIN.).
Y Lensny E Alumot
Compar Biochem Physiol 30(3):569-575 REF
01 Aug 1969 444.8 C73
Apis mellifera, Chemical analysis, Hemolymph, Insect biochemistry, Proteins, Queen bees, Spermatheca.

10058-69
BIOLOGICAL INTERACTION BETWEEN PLASTICIZERS AND INSECTICIDES.
E P Lichtenstein K R Schulz T W Fuhremann T T Liang
J Econ Entomol 62(4):761-765 REF
15 Aug 1969 421 J822
Biological assay, Biphenyl compounds, Chlorinated hydrocarbons, Chromatography, Dieldrin, DDT, Drosophila melanogaster, Insecticides, Musca domestica, Synergism.

10059-69
INSECT PARASITES OF THE GREEN PEACH APHID, MYZUS PERSICAE SULZ. AND THEIR CONTROL POTENTIAL.
M Maekauer
Entomophaga 13(2):91-106 REF
1968 421 EN835
Biological control (insects), Insect biology, Myzus persicae, Predaceous insects, Zoogeography.

10060-69
AQUATIC INSECT COMMUNITIES OF A SMALL STREAM ON MONT ST. HILAIRE, QUEBEC.
R J Mackay
Can Fish Res Board J 26(5):1157-1183 MAP REF
May 1969 442.9 C16J
Aquatic insects, Insect ecology, Streams, Surveys.

10061-69
LABORATORY AND FIELD EXPERIMENTS ON THE EFFECTIVENESS OF PURIFIED AND NON-PURIFIED NUCLEAR POLYHEDRAL VIRUS OF LYMANTRIA DISPAR L..
A Magnoler
Entomophaga 13(4):335-344 REF
1968 421 EN835
Biological control (insects), Insect diseases, Nuclear polyhedrosis virus, Porthetria dispar.

10062-69
THE ECOLOGY OF THE SIMULIIDAE IN A SCOTTISH RIVER.
P S Maitland M M Penney
J Anim Ecol 36(1):179-206 REF
Feb 1967 410 J826
Insect behavior, Insect ecology, Insect nutrition, Population, Simuliidae.

10063-69
HYDROGEN-ION CONCENTRATION AND THE DIGESTIVE ENZYMES IN CLETUS SIGNATUS WALKER (HETEROPTERA: COREIDAE).
S B Mall A N Chattoraj
Indian J Entomol 30(2):154-162 REF
Jun 1968 420 IN23
Coreidae, Enzymes, Gastrointestinal system, Hydrogen-ion concentration, Insect biochemistry.

10064-69
MORPHOLOGY OF THE NERVOUS SYSTEM OF ADULT PRODENIA LITURA.
L M L Mathur
Entomol Soc Amer Ann 63(3):525-529 REF
May 1969 420 EN82
Insect morphology, Nervous system, Prodenia litura.

10065-69
INFLUENCE OF PESTICIDES AND FERTILIZERS ON THE BEHAVIOUR OF PHYTOPHAGOUS MITES IN ORCHARDS AND UNDER LABORATORY CONDITIONS.
G Mathys M Baggiolini J Stahl
Entomophaga 13(4):357-372 REF
1968 421 EN835
Fertilizers, Insect behavior, Orchards, Pesticides, Phytophagous mites.

10066-69
SUBSTRATE PREFERENCES AND INVASION BEHAVIOUR EXHIBITED BY LARVAE OF NILODORUM BREVIBUCCA FREEMAN (CHIRONOMIDAE) UNDER EXPERIMENTAL CONDITIONS.

A J Mcflachlan
Hydrobiologia 33(2):237-249
29 May 1969 410 H992
Chironomidae, Food habits, Insect behavior, Insect rearing, Larvae, Substrates.

10067-69
EYES OF THE FEMALE TWO-SPOTTED SPIDER MITE, TETRANYCHUS URTICAE. I. MORPHOLOGY.
W D McEnroe
Entomol Soc Amer Ann 62(3):461-466 REF
May 1969 420 EN82
Eyes, Insect morphology, Tetranychus urticae.

The anterior eyes of the female Tetranychus urticae (Koch) on the basis of their structure, can serve as scanning-point detectors. The posterior eyes are not shielded and appear to be non-directional receptors.

10068-69
DEVELOPMENT OF THE BAIT PRINCIPLE FOR BOLL WEEVIL CONTROL. IV. FIELD TESTS WITH A BAIT CONTAINING A FEEDING STIMULANT AND THE SPOROZOANS GLUGEA GASTI AND MATTESIA GRANDIS.
R E McLaughlin T C Cleveland R J Daum M R Bell
J Invertebrate Pathol 13(3):429-441
May 1969 421 J826
Anthonomus grandis, Baits, Biological control (insects), Field studies, Glugea gasti, Insect diseases, Mattesia grandis, Microsporidia.

10069-69
RADIATION SENSITIVITY OF TWELVE SPECIES OF ARTHROPODS.
E F Menhinick D A Crossley
Entomol Soc Amer Ann 62(4):711-717 REF
Jul 1969 420 EN82
Arthropoda, Blatta orientalis, Blattella germanica, Gamma rays, Insect physiology, Periplaneta americana, Radiation, Tenebrio molitor.

10070-69
ERETMOCERUS CORNI HALD. (HYM., APHELINIDAE), A PARASITE OF SIPHONINUS PHILLYREAE HALID. (HOM., ALEYRODIDAE). (IT)
I Mentzelos
Entomophaga 12(4):351-353
1967 421 EN835
Aleyrodidae, Aphelinidae, Predaceous insects, Zoogeography. English abstract.

10071-69
AGE-DISTRIBUTION AND ABUNDANCE IN POPULATIONS OF FLOUR BEETLES. I. EXPERIMENTAL STUDIES.
D B Mertz
Ecol Monogr 39(1,WINTER):1-31 REF
1969 410 EC72
Aging, Insect biology, Insect ecology, Population, Tribolium castaneum.

10072-69
FIELD OBSERVATIONS ON PERIODICITY AND SITE PREFERENCE IN OVIPOSITION BY AEDES AEGYPTI (L.) AND RELATED MOSQUITOES (DIPTERA: CULICIDAE) IN KENYA.
G A H McClelland
Roy Entomol Soc London Proc Ser A Gen Entomol 43(10-12):147-154 REF
31 Dec 1968 420 L84PA
Aedes aegypti, Color, Insect behavior, Insect eggs, Oviposition.

10073-69
STARVATION-INDUCED ACTIVITY IN COCKROACH MALPIGHIAN TUBULES.
J Meyers T Miller
Entomol Soc Amer Ann 62(4):725-729
Jul 1969 420 EN82
Insect physiology, Malpighian tubes, Periplaneta americana, Starvation.

10074-69
COCKROACH HEART RESPONSE TO CARDIO-ACCELERATORS.
T Miller
Entomol Exp Appl 12(1):53-61 REF
1969 421 EN895
Dorsal vessel, Electrophysiology, Nervous system, Periplaneta americana.

10075-69
ANATOMICAL STUDIES OF THE OVIPOSITIONAL SITE OF PLANT HOPPERS AND LEAF HOPPERS ON RICE.
B C Misra P Israel
Indian J Entomol 30(2):178
Jun 1968 420 IN23
Insect behavior, Nephotettix, Nilaparvata lugens, Oviposition, Plant physiology, Rice.

10076-69
A MODEL ACCOUNTING FOR SYMPATRY IN WATER MITES.
R Mitchell
Amer Natur 103(932,JUL-AUG):331-346
Aug 1969 470 AM36
Insect adaptation, Insect ecology, Mites, Parasitic insects, Population.

10077-69
IMMUNE REACTION IN INSECTS. 1. LYSOZYME AS THE FUNDAMENTAL ANTIBACTERIAL FACTOR IN THE HUMORAL PREVENTIVE MECHANISM OF THE INSECTS. (GE)
W Mohrig B Messner
Biol Zentralbl 87(4):439-470, REF
Jul 1968 442.8 B523
Bacteria, Bactericides, Blood, Enzymes, Experimental insects, Immunochemistry, Insect biochemistry, Muramidase. English and Russian summaries.

10078-69
THE ABSORPTION OF P,P'-DDE BY LARVAE OF AGLAIS URTICAE (LEPIDOPTERA: NYMPHALIDAE).
F Moriarty
Entomol Exp Appl 12(1) 81-84
1969 421 EN895
Chlorinated hydrocarbons, Cuticle, Dichloro-2,2-bis(p-chlorophenyl) ethylene, 1,1-, Hemolymph, Insecticides, Larvae, Nymphalidae.

10079-69
WATER UPTAKE AND EMBRYONIC DEVELOPMENT IN EGGS OF CHORTHIPPUS BRUNNEUS THUNBERG (SALTATORIA: ACRIDIDAE).
F Moriarty
J Exp Biol 50(2):327-333
Apr 1969 442.8 B77
Acrididae, Insect eggs, Insect physiology, Osmotic pressure, Water.

10080-69
BIOLOGY AND DESCRIPTION OF IMMATURE STAGES OF ORTHACHETA HIRTIPES, A PREDATOR OF CORDILURA SPP.
S E Neff J B Wallace
Entomol Soc Amer Ann 62(4):785-790 REF
Jul 1969 420 EN82
Anthomyiidae, Insect behavior, Insect biology, Larvae, Predaceous insects, Pupae.

10081-69
ENTOMOCOENOLOGICAL AND BIOLOGICAL STUDIES IN ROSA DAMASCENA MILL. PLANTATIONS. II. COLEOPTERA. (RUS)
V Nikolova
Bulgarska Akad Nauk Zool Inst Muz Izv 26:152-155
1968 410.9 B8721
Coleoptera, Insect nutrition, Insect taxonomy, Population, Rosa. Article in English and Russian.

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NUTRITION OF XYLEBORUS FERRUGINEUS. I. ETHANOL IN DIETS AS A TUNNELING (FEEDING) STIMULANT.
D M Norris J M Baker
Entomol Soc Amer Ann 63(3):592-594
May 1969 420 EN82
Ethyl alcohol, Feeding, Insect behavior, Insect nutrition, Stimulants, Xyleborus ferrugineus.

When ethanol was added to artificial diets, female (fungus-free) X. ferrugineus (F.) (Coleoptera: Scolytidae) tunneled farther than in the absence of ethanol. On 1 diet, the beetles reproduced only when ethanol was added to stimulate more tunneling (feeding). Ethanol also stimulated beetle tunneling in a diet that was nutritionally inadequate for development of a complete parthenogenetic generation of fungus-free X. ferrugineus.

10083-69
VITELLOGENIC BLOOD PROTEIN SYNTHESIS BY INSECT FAT BODY.
M L Pan W J Bell W H Telfer
Science 165(3891):393-394 REF
25 Jul 1969 470 SC12
Antibodies, Blood proteins, Fat body, Hyalophora cecropia, Oogenesis, Periplaneta americana, Radioactive tracers, Tissue culture.

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EFFECT OF DIFFERENT FOOD PLANTS ON THE LARVAL AND POST-LARVAL DEVELOPMENT ON DIACRISIA OBLIQUA WALKER.
N D Pandey D R Yadava T P S Teotia
Indian J Entomol 30(3):229-234
Sep 1968 420 IN23
Diacrisia obliqua, Food plants, Insect biology, Insect nutrition, Insect physiology, Larvae.

10085-69
THE PREDATORY AND REPRODUCTIVE BEHAVIOUR OF RHINOCORIS BICOLOR AND R. TROPICUS (HEMIPTERA: REDUVIIDAE).
A H Parker
Entomol Exp Appl 12(1):107-117
1969 421 EN895
Insect behavior, Insect rearing, Predaceous insects, Reduviidae, Reproduction, Sex behavior.

10086-69
THE ARTIFICIAL FEEDING OF PHOSPHAMIDON TO MYZUS PERSICAE: II. THE EFFECTS OF PHOSPHAMIDON ON LIQUID UPTAKE THROUGH A PARAFILM MEMBRANE.
W H Parry J B Ford
Entomol Exp Appl 12(1):1-18 REF
1969 421 EN895
Food habits, Insect behavior, Insect physiology, Myzus persicae, Phosphamidon, Toxicology.

10087-69
NEW PARASITE RECORDS ON HYMENIA RECURVALIS (FABRICIUS) (LEPIDOPTERA: PYRALIDAE).
B Parshad R P Singh M L Srivastava
Indian J Entomol 30(3):248
Sep 1968 420 IN23
Braconidae, Hymenia recurvalis, Natural control (insects), Parasitic insects.

10088-69
NEW RECORDS OF PARASITES OF PLUTELLA MACULIPENNIS CURT. IN GUJARAT, INDIA.
V C Patel H K Patel
Indian J Entomol 30(1):86
Mar 1968 420 IN23
Parasitic insects, Plutella maculipennis, Surveys, Zoogeography.

10089-69
COMMON INHIBITORY MOTORNEURONES IN INSECTS.
K G Pearson S J Bergman
J Exp Biol 50(2):445-471 REF
Apr 1969 442.8 B77

Electrophysiology, Insect physiology, Locusta migratoria, Muscles, Nervous system, Periplaneta americana, Schistocerca gregaria.

10090-69
A KILLING AGENT FOR USE IN LIGHT TRAPS.
D C F Perrott
New Zeal Entomol 4(2):37-38
Apr 1969 421 N48
Ceramhycidae, Dichlorvos, Insect collecting equipment, Light traps, Noctuidae.

10091-69
PUPARIAL DURATION IN GLOSSINA MORSITANS ORIENTALIS UNDER CONDITIONS OF CONSTANT TEMPERATURE.
R J Phelps P M Burrows
Entomol Exp Appl 12(1):33-43 REF
1969 421 EN895
Glossina morsitans, Metamorphosis, Pupae, Temperature.

10092-69
LETHAL TEMPERATURES FOR PUPARIA OF GLOSSINA MORSITANS ORIENTALIS.
R J Phelps P M Burrows
Entomol Exp Appl 12(1):23-32
1969 421 EN895
Glossina morsitans, Longevity, Pupae, Temperature.

10093-69
OENOCYTES: FORM AND FUNCTION.
B J R Philogene
Entomol Soc Quebec Ann 12(1):3-13 REF
Jan 1967 420 EN822
Cuticle, Insect physiology, Molting (insects), Secretion.

10094-69
DIPLOGASTERID NEMATODES (DIPLOGASTERIDAE: RHABDITIDA) AND THEIR RELATIONSHIP TO INSECT DISEASE.
G O Poinar
J Invertebrate Pathol 13(3):447-454 REF
May 1969 421 J826
Diplogasteridae, Galleria mellonella, Insect diseases, Mortality, Reviews, Rhabditis.

10095-69
A SIMPLE COLLECTOR FOR REMOVING SOIL INSECTS FROM AN OIL/WATER INTERFACE.
R J B Power
New Zeal Entomol 4(2):3-5
Apr 1969 421 N48
Insect collecting equipment, Soil insects.

10096-69
INHERITANCE OF DDT-RESISTANCE IN MUSCA DOMESTICA NEBULD FABR.
S J Rahman N H Khan
Indian J Entomol 30(1):69-76
Mar 1968 420 IN23
Chlorinated hydrocarbons, DDT, Inheritance, Insect rearing, Insecticide resistant insects, Musca domestica, Organophosphorus compounds.

10097-69
NEW RECORD OF CHANLIOPS FALLAX SCOTT. (HEMIPTERA: LYGAEIDAE) ON MOONG AND URID (PHASEOLUS SPP.).
R R Rawat H R Sahu
Indian J Entomol 30(2):179
Jun 1968 420 IN23
Beans, Insect morphology, Insect outbreaks, Lygaeidae.

10098-69
STUDIES ON PHOSPHOHEXOSEISOMERASE (D-GLUCOSE-6-PHOSPHATE KETOL ISOMERASE) FROM THE INDIAN HONEYBEE, APIS INDICA FABRICIUS:.
S Ray N C Pant K N Mehrotra
Indian J Entomol 30(1):37-44 REF
Mar 1968 420 IN23
Apis indica, Enzymes, Insect biochemistry, Insect physiology, Isomerases.

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METHOD FOR REPELLING BEES. PATENT 3,456,056.
J J Reich F P Reich
Us Patent Office Offic Gaz 864(3):968
15 Jul 1969 156.65 OF2
Acids, Bees, Insect repellents, Organic compounds, Patents.

10100-69
DAMAGE TO TESTES AND RECOVERY OF FERTILITY IN BOLL WEEVILS FED CHEMOSTERILANTS.
L H Reinecke W Klassen J F Norland
Entomol Soc Amer Ann 63(3):511-525 REF
May 1969 420 EN82
Anthonomus grandis, Chemosterilants, Fertility, Insect behavior, Insect histology, Sex behavior, Testes.

10101-69
MARKING AND RECAPTURE OF CALIFORNIA RED SCALE FOR FIELD STUDIES.
R E Rice D S Moreno
Entomol Soc Amer Ann 63(3):558-560
May 1969 420 EN82
Aonidiella aurantii, Insect traps, Methodology, Paints.

10102-69
COMPARISON OF EFFECTS OF IRRADIATION ON THE PRIMARY SPERMATOGONIA AND MATURE SPERM OF THREE SPECIES OF DIPTERA.
J G Riemann B J Thorson
Entomol Soc Amer Ann 63(3):613-617 REF
May 1969 420 EN82
Cochliomyia macellaria, Insect physiology, Musca domestica, Phormia regina, Spermatogenesis, X-rays.

10103-69
THE DEFENSIVE BEHAVIOUR OF THE STICK INSECT ONCOTOPHASMA MARTINI (GRIFFINI) (ORTHOPTERA: PHASMATIDAE).
M H Robinson
Roy Entomol Soc London Proc Ser A Gen Entomol 43(10-12):183-187 REF
31 Dec 1968 420 L84PA
Insect behavior, Insect morphology, Insect protective devices, Phasmatidae.

10104-69
STEROL AND WATER-SOLUBLE REQUIREMENTS FOR LARVAE OF THE RED-BANDED LEAF ROLLER, ARGYROTAENIA VELUTINANA.
G C Rock
Entomol Soc Amer Ann 63(3):611-613
May 1969 420 EN82
Argyrotaenia velutinana, Insect nutrition, Larvae, Sterols, Vitamins.

10105-69
SEX ATTRACTANT OF FEMALE DERMESTID BEETLE TROGODERMA INCLUSUM LE CONTE.
J O Rodin R M Silverstein W E Burkholder J E Gorman
Science 165(3896):904-906
29 Aug 1969 470 SCI2
Attractants, Biological assay, Chemical analysis, Insect biochemistry, Pheromones, Trogoderma inclusum.

10106-69
ISOLATION AND BIOLOGICAL PROPERTIES OF THE JUVENILE HORMONE.
H Roller J S Bjerke L M Holthaus D W Norgard W H McShan
J Insect Physiol 15(3):379-389
Mar 1969 421 J825
Ecdysone, Galleria mellonella, Hormones, Hyalophora cecropia, Insect biochemistry, Insect biology, Periplaneta americana, Tenebrio molitor.

10107-69
ANATOMICAL INDICATORS FOR ASSESSING AGE OF MOSQUITOES: CHANGES IN OVARIAN FOLLICLES.
B Rosay
Entomol Soc Amer Ann 63(3):605-611 REF
May 1969 420 EN82
Aedes nigromaculis, Aging, Culex pipiens quinquefasciatus, Insect physiology, Ovaries.

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KCL-INDUCED SPREADING DEPRESSION AND VENTILATION IN THE COCKROACH.
H D Rounds
Compar Biochem Physiol 24(2):653-655 REF
Feb 1968 444.8 C73
Insect physiology, Nerves, Periplaneta americana, Potassium chloride, Ventilation.

10109-69
BIOLOGICAL NOTES ON THE BEE TETRALONIA MINUTA AND ITS CLEPTOPARASITE, MORGANIA HISTRIO TRANSVAALENSIS (HYMENOPTERA: ANTHOPHORIDAE).
J G Rozen
Entomol Soc Wash Proc 71(1):102-107
Mar 1969 420 W27
Anthophorinae, Insect biology, Morgania histrio transvaalensis, Parasitic insects, Tetralonia minuta.

10110-69
FLEA BEETLES PHYLLOTRETA CRUCIFERAE GOEZE. (COLEOPTERA, CHRYSOMELIDAE) A NEW PEST OF STOCK FLOWER MATHIOLA SP. IN RAJASTHAN.
J N Sachan
Indian J Entomol 30(2):179
Jun 1968 420 IN23
Chrysomelidae, Insect outbreaks, Mathiola, Phyllotreta.

10111-69
ON THE EXPLOSION CHEMISTRY OF THE BOMBARDIER BEETLE. VI. ON THE CHEMISTRY OF THE SMALLEST BOMBARDIER BEETLE PAUSSUS FAVIERI. XLIII. COMMUNICATION ON ARTHROPOD PROTECTIVE SUBSTANCES. (GE)
H Schildknecht K Koob
Naturwissenschaften 56(6):328
Jun 1969 474 N213
Carabidae, Insect biochemistry, Insect protective devices, Secretion.

10112-69
A NEW RECORD, DORYLUS LABIATUS SHUCK. (HYMENOPTERA: FORMICIDAE) AS A PREDATOR OF MICROTERMES MYCOPHAGUS DESN. (ISOPTERA: TERMITIDAE).
S K Sharma O P Bohra
Indian J Entomol 30(3):243
Sep 1968 420 IN23
Formicidae, Natural control (insects), Predaceous insects, Termites.

10113-69
RETENTION OF INTRA-CELLULAR POTASSIUM BY THE HOUSEFLY.
H H Shatoury
Entomol Exp Appl 12(1):19-22
1969 421 EN895
Histochemistry, Insect biochemistry, Insect physiology, Musca domestica, Potassium.

10114-69
SELECTION FOR LINDANE RESISTANCE IN DERMESTES MACULATUS DE GEER (COLEOPTERA, DERMESTIDAE).
D D Shaw C J Lloyd
J Stored Prod Res 5(1):69-72 REF
May 1969 421 J829
Chlorinated hydrocarbons, Dermestes maculatus, Insect biology, Insect rearing, Insecticide resistant insects, Insecticides, Lindane.

10115-69
NOTES ON THE MALE GERM CELLS OF A BEETLE, LEPTINOTARSA DECEMLINEATA.
J W Shay E E Simmons W J Dobson
Entomol News (philadelphia) 80(7):185-191 REF
Jul 1969 421 EN88
Electron microscopy, Insect morphology, Leptinotarsa decemlineata, Reproductive organs, Spermatocytes, Spermatogenesis.

10116-69
A SIMPLE APPARATUS FOR DIPPING TREATMENT OF INSECTS FOR VARYING PERIODS OF TIME.
O P Singh T P S Teotia
Indian J Entomol 30(3):251-253
Sep 1968 420 IN23
Chemosterilants, Dipping, Insect rearing equipment, Methodology.

10117-69
OBSERVATIONS ON THE BIOLOGY OF LATHROMEROIDES SP. (TRICHOGRAMMATIDAE: HYMENOPTERA) EGG PARASITE OF THE LEAF ROLLING WEEVIL, APODERUS SISSU MARSHALL (CURCULIONIDAE: COLEOPTERA) WITH NOTES ON THE HOST WEEVIL.
R P Singh B Parshad
Indian J Entomol 30(3):192-196
Sep 1968 420 IN23
Curculionidae, Insect biology, Parasitic insects, Trichogrammatidae.

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NEW APPROACHES TO THE CONTROL OF PEST ORGANISMS.
C N Smith
Amer Soc Agron ASA Spec Publ 8:145-150
Nov 1966 64.9 AM3
Attractants, Chemosterilants, Insect behavior, Insect control, Insect rearing, Sterilization.

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OVIPOSITION AND HATCHING IN TWO SPECIES OF TICKS IN RELATION TO MOISTURE DEFICIT.
D E Sonenshine J A Tigner
Entomol Soc Amer Ann 63(3):628-640 REF
May 1969 420 EN82
Amblyomma americanum, Dermacentor variabilis, Humidity, Insect eggs, Insect physiology, Mortality, Oviposition.

10120-69
NEMATODE PARASITES OF THE FACE FLY AND THE ONION MAGGOT IN FRANCE AND DENMARK.
J G Stoffolano
J Econ Entomol 62(4):792-795 REF
15 Aug 1969 421 J822
Biological control (insects), Diptera, Heterotylenchus aberrans, Heterotylenchus autumnalis, Hylemya antiqua, Insect diseases, Musca autumnalis, Nematodes.

10121-69
THE EFFECTS OF THE REMOVAL OF THE PARASITE XENOS (INSECTA STREPSIPTERA) ON THE PROTOCEREBRAL NEUROSECRETION OF ITS HOST POLISTES (HYM. VESPIDAE). (FR)
A Strambi
Acad Sci Compt Rend Ser D Sci Nat 264(23, 1ST SEMESTER):2646-2648
05 Jun 1967 505 P21
Insect physiology, Polistes, Stylopidae.

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INHIBITION OF THE DEFENSE REACTION OF DROSOPHILA MELANOGASTER PARASITIZED SIMULTANEOUSLY BY THE WASPS PSEUDEUCOILA BOCHEI AND PSEUDEUCOILA MELLIPES.
F A Streams L Greenberg
J Invertebrate Pathol 13(3):371-377 REF
May 1969 421 J826
Cynipidae, Drosophila melanogaster, Insect behavior, Insect physiology, Insect protective devices, Pseudeucoila bochei, Pseudeucoila mellipes.

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SEASONAL EVOLUTION OF THE HONEY BEE THERMOGENESIS. OXYGEN CONSUMPTION OF THE ISOLATED BEE AT FIVE DIFFERENT TEMPERATURES IN SUMMER AND IN WINTER. (FR)
T Stussi M L Harmelin
Paris Soc Biol Compt Rend 160(7):1503-1506
14 Jan 1967 442.9 P21
Apis mellifera, Insect evolution, Insect physiology, Oxygen, Seasonal variation, Temperature.

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THE EFFECT OF PERILLUS BIOCULATUS (FABR.) (HET., PENTATOMIDAE) ON THE POPULATION DYNAMICS OF THE POTATO BEETLE. (GE)
A Szmidt W Wegorek
Entomophaga 12(4):403-408
1967 421 EN835
Biological control (insects), Leptinotarsa decemlineata, Perillus bioculatus, Population, Predaceous insects. English abstract.

10125-69
VARIABILITY IN INSECTICIDE TOLERANCE OF EIGHTEEN HONEY-BEE COLONIES.
A S Tahori Z Sohel M Soller
Entomol Exp Appl 12(1):85-98 REF
1969 421 EN895
Apis mellifera, Chlorinated hydrocarbons, DDT, Endrin, Insecticides, Organophosphorus compounds, Ronnel, Toxicology, Trichlorfon.

10126-69
A STRAIN OF NUCLEAR-POLYHEDROSIS VIRUS CAUSING EXTENSIVE CELLULAR HYPERTROPHY.
Y Tanada T Hukuhara G Y Chang
J Invertebrate Pathol 13(3):394-409 REF
May 1969 421 J826
Hypertrophy, Insect diseases, Polyhedroses, Pseudaletia unipuncta.

10127-69
ON THE OVIPOSITION BEHAVIOUR AND DEVELOPMENT OF SITOPHILUS ORYZAE LINN. IN VARIOUS NATURAL FOODS.
T P S Teotia V S Singh
Indian J Entomol 30(2):119-124 REF
Jun 1968 420 IN23
Insect behavior, Insect nutrition, Insect physiology, Oviposition, Sitophilus oryzae.

10128-69
TOXICITY OF SELECTED ACARICIDES TO SUSCEPTIBLE AND RESISTANT STRAINS OF TETRANYCHUS URTICAE KOCH.
G F Thiele R A Harrison
New Zealand J Sci 12(2):380-394 REF
Jun 1969 514 N482
Acaricides, Binapacryl, Carbamates, Carbonates, Dicofol, Insecticide resistant insects, Organophosphorus compounds, Tetranychus urticae, Toxicology.

10129-69
EXPERIMENTS ON LARVAL DIAPAUSE IN THE CARABID PTEROSTICHUS VULGARIS L. (GE)
H U Thiele I Krehan
Entomol Exp Appl 12(1):67-73
1969 421 EN895
Carabidae, Insect physiology, Larvae, Light, Metamorphosis, Temperature. English abstract.

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EFFECTS OF EXOGENOUS MOULTING HORMONES ON PUPARIUM FORMATION IN CALLIPHORA.
J A Thomson D H S Horn
Australian J Biol Sci 22(3):761-765 REF
Jun 1969 442.8 AU72
Calliphora, Insect hormones, Insect physiology, Molting (insects), Pupae.

10131-69
LABORATORY EVALUATION OF INSECTICIDES AGAINST WHITE-FRINGED WEEVIL (GRAPHOGNATHUS LEUCOLOMA (BOHEMAN) (COLEOPTERA: CURCULIONIDAE)) LARVAE.
D H Todd
New Zeal J Agr Res 11(4):903-910 REF
Nov 1968 23 N4892
Chemical control (insects), Chlorinated hydrocarbons, Curculionidae, Dieldrin, Diethyl O-(2-quinoxalinyl) phosphorothioate, O,O-, Diethyl O-2-pyrazinyl phosphorothioate, O,O-, Ethyl S-phenyl ethylphosphonodithioate, O-, Graphognathus leucoloma, Heptachlor, Insect pests, Insecticide trials, Insecticides, Larvae, Lindane, Soils.

10132-69
A RECORD OF DIURNAL FLIGHT IN DYTISCUS.
R W J Uffen
S London Entomol Natur Hist Soc Proc Trans 7(6,PT 1):14
Mar 1967 420 SO8
Dytiscidae, Insect behavior, Insect flight.

10133-69
FUSEAUX VIRUS OF A SOUTH AMERICAN SCARABAEIDAE. (FR)
C Vago A Amargier B Hurpin G Meynadier J L Duthoit
Entomophaga 13(4):373-376
1968 421 EN835
Insect diseases, Scarabacidae. English abstract.

10134-69
THE HISTOPATHOLOGY OF A NUCLEAR POLYHEDROSIS IN LARVAE OF THE CABBAGE LOOPER, TRICHOPLUSIA NI, RELATED TO SYMPTOMS AND MORTALITY.
P V Vail I M Hall
J Invertebrate Pathol 13(2):188-198
Mar 1969 421 J826
Insect diseases, Larvae, Mortality, Nuclear polyhedrosis virus, Trichoplusia ni.

10135-69
A SUPPLEMENTARY LIST OF THE HOST-PLANTS OF LAC INSECTS.
R K Varshney T P S Teotia
Bombay Natur Hist Soc J 64(3):488-511 REF
Dec 1967 513 B63
Catalogs, Lacciferidae, Plants, Zoogeography.

10136-69
SENSITIVITY TO GAMMA RADIATION OF TRIBOLIUM CONFUSUM EGGS AT VARIOUS DEVELOPMENTAL STAGES.
A Vereecke C Perelents
Entomol Exp Appl 12(1):62-66
1969 421 EN895
Gamma rays, Insect eggs, Tribolium confusum.

10137-69
BEETLE.
E F Vevai
Pesticides 1(10):22-24
Jun 1968 SB951.P43
Chemical control (insects), Chlorinated hydrocarbons, Coleoptera, Formulations, Insect identification, Insecticides, Organophosphorus compounds.

10138-69
IDENTIFICATION OF HYDROCARBONS FROM NOVOMESSOR COCKERELLI.
K Vick W A Drew D J McGurk E J Eisenbraun G R Waller
Entomol Soc Amer Ann 62(4):723-725
Jul 1969 420 EN82
Hydrocarbons, Insect biochemistry, Methodology, Novomessor.

Procedures and evidence are presented regarding the identification of hydrocarbons found to be present in the gasters of Novomessor cockerelli (Andre) (Hymenoptera: Formicidae). Tridecane,

n-tetradecane, n-pentadecane, n-hexadecane, n-heptadecane, ntoctadecane, and n-nonadecane were identified.

10139-69
REFINED DEFENSIVE MECHANISMS IN CHRYSOMELA SCRIPTA.
J B Wallace M S Blum
Entomol Soc Amer Ann 63(3):503-506
May 1969 420 EN82
Chemical analysis, Chrysomelidae, Insect biochemistry, Insect protective devices, Larvae, Pupae, Salicylaldehyde.

10140-69
NOTES ON THE NATURAL HISTORY OF TENEBRIONIDAE (COLEOPTERA) IN CANTERBURY.
J C Watt
New Zeal Entomol 4(2):47-49
Apr 1969 421 N48
Insect biology, Tenebrionidae.

10141-69
CONTINUOUS LABORATORY CULTURE OF THE LOCUST BORER, MEGACYLLENE ROBINIAE.
E H Wollerman C Adams G C Heaton
Entomol Soc Amer Ann 63(3):647-649
May 1969 420 EN82
Insect biology, Insect rearing, Megacyllene robiniae, Methodology.

10142-69
SPECTRAL EFFICIENCY AS FUNCTION OF LATENCY IN THE VISUAL MECHANISM OF INSECT (TENEBRIO MOLITOR L.).
U Yinon
Experientia 25(7):711
15 Jul 1969 475 EX7
Insect physiology, Light, Tenebrio molitor, Vision.

10143-69
SEXUAL DIMORPHISM IN NEUTRAL LIPID METABOLISM IN THE INDIAN-MEAL MOTH, PLODIA INTERPUNCTELLA (HUBNER).
W J Yurkiewicz
Ohio J Sci 69(2):70-73 REF
Mar 1969 410 OH3
Glycerides, Insect biochemistry, Insect metabolism, Insect physiology, Lipids, Plodia interpunctella.

Males of last instar Indian-meal moths contain slightly more neutral lipid per gram live weight than do females. The qualitative composition of the various neutral fractions is similar in both sexes. During the pupal period, the female catabolizes considerably more triglyceride than the male, resulting in a much lower triglyceride content in the newly emerged adult female. There is an almost equal rate of lipid utilization in both sexes during the first three days of adult life.

10144-69
ETOLOGY AS THE DETERMINING FACTOR OF THE NUMERICAL DISTRIBUTION OF THE SPECIES IN THE FAUNA. (IT)
E Zavattari
Accad Naz Ital Entomol Atti 8:28-40
1960 420 AC2
Insect biology, Insect ecology, Insect morphology, Parasitic insects, Population, Zoogeography.

10145-69
THE PARASITISM OF GAMASID MITES (GAMASOIDEA) ON BIRDS. (RUS)
A A Zemskaya
Zool Zhur 48(4):512-517
Apr 1969 410 R92
Birds, Insect ecology, Mites, Parasitic insects. English abstract.

10146-69
EVOLUTION OF FITNESS. IV. GENETIC EVOLUTION OF INTER-SPECIFIC COMPETITIVE ABILITY IN DROSOPHILA.
F J Ayala
Genet Soc Amer Rec 61(3):737-747 REF
Mar 1969 442.9 G28
Drosophila, Insect evolution, Insect genetics, Population.

10147-69
ETHYL METHANESULFONATE (EMS) INDUCED MUTATIONS IN DROSOPHILA MELANOGASTER.
J B Bishop W R Lee
Genetics 61(2,PT 2,SUPPL):S4-S5
1969 442.8 G28
Drosophila melanogaster, Ethyl methanesulfonate, Insect genetics, Insect mutation.

10148-69
INTERACTION BETWEEN CHRONIC IRRADIATION, VIBRATION, AND CENTRIFUGATION IN THE PRODUCTION OF GENETIC EFFECTS IN DROSOPHILA.
L S Browning
Genetics 61(2,PT2,SUPPL):S7-S8
1969 442.8 G28
Centrifugation, Chromosomes, Drosophila, Gamma rays, Insect genetics, Vibration.

10149-69
ON THE DETERMINATION OF INSECT AND MITE RESISTANCE TO PESTICIDES. THE INFLUENCE OF THESE PRODUCTS IN SUBLETHAL DOSES ON ANIMALS AND IN THE TROPHIC EFFECT FOLLOWING BIOCHEMICAL REPERCUSSIONS ON PLANTS. (FR)
F Chaboussou
Rev Zool Agr Appl 67(10-12, 4TH TRIMESTER:105-138 REF
1968 410.9 SO12
Chlorinated hydrocarbons, DDT, Insect genetics, Insect nutrition, Insecticide resistant insects, Lindane, Organophosphorus compounds, Parathion, Plants, Population.

10150-69
HOMOLOGOUS LINES OF CHROMOSOME POLYMORPHISM IN THE NATURAL POPULATIONS OF ADIRONDACK BLACK FLY (DIPTERA, SIMULIDAE). (RUS)
L A Chubareva N A Petrova
Tsitologiya 10(10):1248-1256 REF
Oct 1968 442.8 T78
Chromosomes, Genetics, Insect populations, Polymorphism, Simuliidae. English summary.

10151-69
MEIOSIS IN THE GRASSHOPPER: CHIASMA FREQUENCY AFTER ELEVATED TEMPERATURE AND X-RAYS.
K Church D E Wimber
Can J Genet Cytol 11(1):209-216 REF
Mar 1969 443.8 C16
Autoradiography, Chromosomes, Insect genetics, Meiosis, Melanoplus, Temperature, X-rays.

10152-69
A THIRD LOCUS (IPO) AFFECTING PYRIDOXAL OXIDASE IN DROSOPHILA MELANOGASTER.
J F Collins E Glassman
Genet Soc Amer Rec 61(4):833-839 REF
Apr 1969 442.9 G28
Chromosomes, Drosophila melanogaster, Enzymes, Insect genetics.

10153-69
CHROMOSOMAL POLYMORPHISM AND GENETIC LOAD IN DROSOPHILA PSEUDOOBSCURA.
D W Crumpacker V M Salceda
Genet Soc Amer Rec 61(4):859-873 REF
Apr 1969 442.9 G28
Drosophila pseudoobscura, Genes, Insect genetics, Polymorphism.

10154-69
CHROMOSOME BEHAVIOR UNDER THE INFLUENCE OF CLARET-NONDISJUNCTIONAL IN DROSOPHILA MELANOGASTER.
D G Davis
Genet Soc Amer Rec 61(3):577-594 REF
Mar 1969 442.9 G28
Chromosomes, Cytogenetics, Drosophila melanogaster, Insect genetics.

10155-69
SEGREGATION DISTORTER IN D. MELANOGASTER MALES: AN EFFECT OF FEMALE GENOTYPE ON THE SEGREGATION RATIO.
R E Denell
Genetics 61(2,PT 2,SUPPL):S13
1969 442.8 G28
Chromosomes, Drosophila melanogaster, Insect genetics, Sex.

10156-69
POPULATION GENETICS IN THE AMERICAN TROPICS. IV. TEMPORAL CHANGES EFFECTED IN NATURAL POPULATIONS OF DROSOPHILA MELANOGASTER FROM COLOMBIA.
H F Hoenigsberg L A Granobles L E Castro
Genetica 40(2):201-215 REF
1969 442.8 G282
Drosophila melanogaster, Insect genetics, Population, Seasonal variation.

Samples of Drosophila melanogaster were taken each month over several years from a locality in Fusagasuga, Columbia. Temporal shifts in gene frequencies were found. These reflect important adaptive changes in the populations, and the kind of gene pool modifications that are necessary for the better occupation of local temporal niches.

10157-69
AUTOSOMAL FRAGMENTATIONS AND FUSIONS IN ODONATA AND THEIR EVOLUTIONARY IMPLICATIONS.
B Kianta
Genetica 40(2):158-180 REF
1969 442.8 G282
Chromosomes, Cytogenetics, Insect evolution, Odonata.

10158-69
CHANGES IN CHROMOSOMES INDUCED BY DIFFERENT DNA VIRUS IN CELLS OF RHYNCHOSCIARA ANGELAE.
C Pavan A B da Conha
Genetics 61(2,PT 2.SUPPL):S46-S47
1969 442.8 G28
Cells, Chromosomes, Cytogenetics, Deoxyribonucleic acid, Insect diseases, Rhynchosciara, Viruses.

10159-69
A MOLECULAR APPROACH TO THE STUDY OF GENIC HETEROZYGOSITY IN NATURAL POPULATIONS. IV. PATTERNS OF GENIC VARIATION IN CENTRAL, MARGINAL AND ISOLATED POPULATIONS OF DROSOPHILA PSEUDOOBSCURA.
S Prakash R C Lewontin J L Hubby
Genet Soc Amer Rec 61(4):841-858 REF
Apr 1969 442.9 G28
Biochemistry, Drosophila pseudoobscura, Insect genetics, Population, Proteins.

10160-69
POSITION EFFECT ON DNA TRANSCRIPTION AND REPLICATION.
P A Roberts
Genetics 61(2,PT 2,SUPPL):S50
1969 442.8 G28
Chromosomes, Deoxyribonucleic acid, Drosophila melanogaster, Insect genetics, Lethal factor, Pupae, Vibration.

10161-69
EXPERIMENTAL EVIDENCE FOR FACTORS AFFECTING THE RELATIVE EFFICIENCY OF INDIRECT TO DIRECT SELECTION IN TRIBOLIUM CASTANEUM.

E Scheinberg
Can J Genet Cytol 11(1):86-96 REF
Mar 1969 443.8 C16
Insect genetics, Insect rearing, Statistical analysis, Tribolium castaneum.

10162-69
THE ROLE OF SEXUALITY IN DOSAGE COMPENSATION IN DROSOPHILA.
P D Smith J C Lucchesi
Genet Soc Amer Rec 61(3):607-618 REF
Mar 1969 442.9 G28
Chromosomes, Drosophila, Insect genetics, Sex.

10163-69
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Genes, Insect biochemistry, Insect genetics, Insecticide resistant insects, Musca domestica.

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10164-69
A NEW SPECIES OF AEDES (STEGOMYIA) FROM THAILAND (DIPTERA: CULICIDAE).
Y-M Huang
Entomol Soc Wash Proc 71(2):234-239
Jun 1969 420 W27
Aedes scatoi, Culicidae, Insect biology, Insect morphology, Insect physiology, Insect taxonomy, Insect vectors, Larvae, Pupae, Zoogeography.

10165-69
RESEARCH ON THE SYNANTROPIC FLIES IN THE SOFIA AREA, IN REGARD TO THEIR EPIDEMIOLOGICAL IMPORTANCE. (RUS)
V Lavciev E Nestorova
Bulgarska Akad Nauk Zool Inst Muz Izv 23:5-31 REF
1967 410.9 B8721
Diptera, Human diseases, Insect vectors. French abstract.

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S Shulman
Annu Rev Entomol 12:323-346 REF
1967 421 AN72
Allergies, Bibliography, Chemistry, Human diseases, Insects, Reviews.

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Sugar Beet J 32(3,SPRING):16-17
1969 66.8 SU38
Pesticides, Plant pest control, Plows.

10168-69
IN YOUR GARDEN - WEEDS: ROBBERS, BUT NOT ALWAYS BAD.
Metabele
Rhodesian Farmer 39(11):31
26 Jul 1968 24 R347
Economic plants, Gardens, Mulches, Plant nutrition, Plant protection, Strawberries, Weeds.

10169-69
CHEMICAL PREPARATIONS IN THE SERVICES OF AGRICULTURE AND FORESTRY. (SE)
A Srekajs S Pamic V Mance
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1967 S585.S6
Agriculture, Forestry, Pesticides, Plant pest control.

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10170-69
FUNGICIDAL CONTROL OF RICE DISEASES.
D V W Abeygunawardena
Trop Agr &peradeniya& 74(1-2, JAN-JUN):15-26 REF
Jun 1968 26 T751
Antibiotics, Blast, Chemical control (plant diseases), Fungicides, Mercury compounds, Pellicularia, Plant diseases, Rice, Seed-borne plant diseases, Xanthomonas oryzae.

10171-69
CONTROL OF BARLEY LOOSE SMUT IN WISCONSIN IN 1966 AND 1967.
R W Ahrens D C Arny G L Worf L J Wrage
U S Agr Res Serv CR (42):15-17
May 1968 aSB608.G6M6
Barley, Chemical control (plant diseases), Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin, 2,3-, Fungicides, Fungus diseases (plants), Loose smut, Ustilago nuda.

10172-69
DESIGNATION USED, CHEMICAL NAME, SOURCE, AND TRADEMARK NAME OF EACH FUNGICIDE MENTIONED IN THIS COMPILATION.
Anonymous
U S Agr Res Serv CR (42):34-36
May 1968 aSB608.G6M6
Fungicides, Tables (data), Trademarks.

10173-69
EFFECT OF CL-50, A NEW SYNTHETIC FUNGICIDE ON CERTAIN FUNGI.
S H Ashrafi G M Ali S Hafiz R I Zuberi
Pakistan J Sci Indus Res 11(1):46-51
Jan 1968 475 P174
Alternaria solani, Aspergillus niger, Chemical control (plant diseases), Copper, Fungicides, Fungus cultures, Fusarium, Helminthosporium hawaiinese, Zinc.

10174-69
CHEMICAL CONTROL OF LOOSE SMUT IN BARLEY IN MINNESOTA.
E E Banttari
U S Agr Res Serv CR (42):19-20
May 1968 aSB608.G6M6
Barley, Chemical control (plant diseases), Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin, 2,3-, Fungus diseases (plants), Loose smut, Systemic fungicides, Ustilago nuda.

10175-69
NUTRITION OF THE SILVER-LEAF PATHOGEN STEREUM PURPUREUM (PERS.) FRI.
D J Beever
New Zealand J Sci 12(2):268-275 REF
Jun 1969 514 N482
Carbon, Fungus diseases (plants), Plant diseases, Plant nutrition, Stereum purpureum, Thiamine.

10176-69
INTERACTION BETWEEN CHILLI MOSAIC AND POWDERY MILDEW IN TOBACCO.
K C Chadha S P Raychaudhuri
Indian Phytopathol 21(2):171-175
Jun 1968 464.8 IN2
Chilis, Fungus diseases (plants), Mosaic, Plant diseases, Powdery mildew, Tobacco, Virus diseases (plants).

10177-69
A LEAF SPOT DISEASE OF CYAMOPSIS TETRAGONOLOBA CAUSED BY CURVULARIA LUNATA IN INDIA.
J N Chand P S Verma
Indian Phytopathol 21(2):239-240
Jun 1968 464.8 IN2
Curvularia, Cyamopsis tetragonoloba, Fungus diseases (plants), Leaf spot.

10178-69
POST-INFECTION CHANGES IN THE SUGAR CONTENT OF LEAF-SPOT INFECTED BARLEY.
R Dayal M M Joshi
Indian Phytopathol 21(2):221-222
Jun 1968 464.8 IN2
Barley, Fungus diseases (plants), Helminthosporium sativum, Leaf spot, Plant biochemistry, Plant diseases, Sugars.

10179-69
CHEMOTHERAPY OF LOOSE SMUT OF BARLEY IN CANADA.
L V Edgington Ontario Guelph Univ.
U S Agr Res Serv CR (42):20-21
May 1968 aSB608.G6M6
Barley, Chemical control (plant diseases), Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin, 2,3-, Drug therapy, Fungicides, Fungus diseases (plants), Loose smut, Seed treatment.

10180-69
STUDIES ON THE INFECTION OF CUCUMBER MOSAIC VIRUS. V. THE OBSERVATION OF EPIDERMAL CELL IN THE LOCAL LESION.
Y Ehara T Misawa
Tohoku J Agr Res 19(3):166-172
Oct 1968 22.5 T574
Cucumber mosaic virus, Necrosis, Plant histology, Plant injuries, Virus diseases (plants).

10181-69
METHODS OF DETERMINATION OF THE SYSTEMIC AND FUNGITOXIC PROPERTIES OF CHEMICALS APPLIED TO PLANTS WITH EMPHASIS ON CONTROL OF VERTICILLIUM WILT WITH THIABENDAZOLE AND BENLATE.
D C Erwin
World Rev Pest Contr 8(1,SPRING):6-22 REF
1969 79.8 W89
Benomyl, Biological assay, Chemical structure, Cotton, Fungus diseases (plants), Methodology, Systemic fungicides, Thiazolyl)-benzimidizole, 2-(4-, Verticillium.

10182-69
LIST OF PUBLICATIONS ON FUNGUS AND INSECT DEFECTS IN FOREST PRODUCTS.
(058):34P REF
Oct 1967 aZ5354.P2U5
Bibliography, Chemical control (plant diseases), Fungus diseases (plants), Insect pests.

10183-69
INFLUENCE OF LIGHT ON SPORULATION BY HELMINTHOSPORIUM STENOSPILUM.
T E Freeman H H Luke
Phytopathology 59(3):271-273
Mar 1969 464.8 P56
Cynodon dactylon, Helminthosporium stenospilum, Light, Sporulation.

10184-69
IR-2, A GERM PLASM BANK OF VIRUS-FREE FRUIT TREE CLONES.
P R Fridlund
Hortscience 3(4, WINTER):227-229
1968 SB1.H6
Crop varieties, Fruit, Virus diseases (plants).

10185-69
FREEING ALFALFA CLONES FROM ALFALFA MOSAIC VIRUS BY HEAT TREATMENT.
F I Frosheiser
Phytopathology 59(3):391-392 REF
Mar 1969 464.8 P56
Alfalfa, Heat treatment, Mosaic (alfalfa), Viruses.

10186-69
VERTICILLIUM WILT OF TOBACCO. VI. THE INFLUENCE OF ROOTS AND STEMS ON VERTICILLIUM WILT SYMPTOMS IN TOBACCO.
L N Gibbins D S C Wright
New Zeal J Agr Res 11(4):789-796 REF
Nov 1968 23 N4892

Fungus diseases (plants), Plant disease resistance, Plant diseases, Plant grafting, Roots, Stems, Tobacco, Verticillium dahliae, Wilt.

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A NEW TOMATO VIRUS FOUND IN THE ESTONIAN SSR (ASPERMY-VIRUS). (RUS)
M Goldin S Villemson
Akad Nauk Est Ssr Izv Ser Biol 16(3):241-246
1967 442.9 AK18
Aspermy, Tomatoes, Virus diseases (plants). English and Estonian abstracts.

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RHIZOCTONIA LEAF ROT OF COLOCASIA IN INDIA.
R K Grover R D Prasher
China Plant Protect Bull 16(1):6-7
Feb 1968 464.9 C47
Dasheen, Fungus diseases (plants), Mercury chloride, Potassium permanganate, Rhizoctonia, Rot.

10189-69
A SYSTEMIC OXATHIIN FUNGICIDE TO CONTROL LOOSE SMUTS, COVERING SMUTS, SEED ROTS, AND SEEDLING BLIGHTS OF WHEAT, BARLEY, OATS, AND SORGHUM.
E D Hansing
U S Agr Res Serv CR (42):11-15
May 1968 aSB608.G6M6
Barley, Blight, Chemical control (plant diseases), Covered smut, Fungus diseases (plants), Loose smut, Oats, Oxathiins, Rot, Sorghum, Systemic fungicides, Wheat.

10190-69
FUNGICIDAL COMPOSITION CONTAINING ZINC DITHIOCARBAZATE. PATENT 3,458,638.
R Hatta J Kinugawa H Yamamoto I Sumina B Tamura S Suzuki
Us Pateut Office Offic Gaz 864(5):1646
29 Jul 1969 156.65 OF2
Fungicides, Patents, Zinc dithiocarbazate.

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EFFECT OF CHEMICAL TREATMENTS ON THE CONTROL OF.
T T Herbert
U S Agr Res Serv CR (42):9-11
May 1968 aSB608.G6M6
Barley, Chemical control (plant diseases), Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin, 2,3-, Fungicides, Fungus diseases (plants), Loose smut, Ustilago nuda.

10192-69
CONTROL OF LOOSE SMUT OF WHEAT AND BARLEY IN ARKANSAS WITH FUNGICIDES.
J P Jones R D Barnett
U S Agr Res Serv CR (42):3
May 1968 aSB608.G6M6
Barley, Chemical control (plant diseases), Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin, 2,3-, Fungus diseases (plants), Loose smut, Systemic fungicides, Wheat.

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SEED-MYCOFLORA OF MUSK-MELON.
G L Khandelwal R Prasad
Bull Grain Technol 7(1):26-30
Mar 1969 TS2120.B8
Agrosan GN, Aspergillus, Chemical control (plant diseases), Fungicides, Rhizopus, Thiram.

10194-69
CHEMICAL CONTROL OF WHEAT AND BARLEY LOOSE SMUT.
R L Kiesling
U S Agr Res Serv CR (42):5-7
May 1968 aSB608.G6M6
Barley, Chemical control (plant diseases), Fungus diseases (plants), Loose smut, Oxathiins, Systemic fungicides, Thiazole, Wheat.

10195-69
EFFECT OF TWO SYSTEMIC FUNGICIDES ON CONTROL OF LOOSE SMUT IN WHEAT.
R A Kilpatrick O G Merkle
U S Agr Res Serv CR (42):29
May 1968 aSB608.G6M6
Chemical control (plant diseases), Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin, 2,3-, Fungus diseases (plants), Loose smut, Systemic fungicides, Wheat.

10196-69
EFFECTIVENESS OF FUNGICIDES IN CONTROLLING BARLEY LOOSE SMUT.
D M Kline
U S Agr Res Serv CR (42):28
May 1968 aSB608.G6M6
Barley, Chemical control (plant diseases), Chloroneb, Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin, 2,3-, Fungicides, Fungus diseases (plants), Loose smut, Thiocarbamates, Thiram.

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THE EPIPHYTOTIC OF YELLOW ORANGE LEAF DISEASE OF RICE IN 1966 IN THAILAND.
H A Lamey P Surin S Disthaporn L Wathanakol
China Plant Protect Bull 15(4):67-69 MAP
Aug 1967 464.9 C47
Epiphytotic, Leaf rust, Rice, Surveys, Virus diseases (plants).

10198-69
STANDARDIZATION OF THE INTERNATIONAL RACE NUMBERS OF PYRICULARIA ORYZAE.
K C Ling S H Ou
Phytopathology 59(3):339-342 REF
Mar 1969 464.8 P56
Fungus diseases (plants), Piricularia oryzae, Rice.

10199-69
EFFICACY OF OXATHIIN FUNGICIDES FOR CONTROL OF LOOSE SMUT IN BARLEY.
R H Littrell D D Morey
U S Agr Res Serv CR (42):17-18
May 1968 aSB608.G6M6
Barley, Chemical control (plant diseases), Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin, 2,3-, Fungus diseases (plants), Systemic fungicides, Ustilago nuda.

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PRELIMINARY OBSERVATIONS ON THE TREATMENT OF WHEAT AND BARLEY WITH A FUNGICIDE TO CONTROL LOOSE SMUT IN ENGLAND.
R C F Macer
U S Agr Res Serv CR (42):23-25
May 1968 aSB608.G6M6
Barley, Chemical control (plant diseases), Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin, 2,3-, Fungus diseases (plants), Systemic fungicides, Ustilago nuda, Ustilago tritici, Wheat.

10201-69
COLLETOTRICHUM NIGRUM FROM EGG-PLANT. A NEW RECORD FROM INDIA.
S B Mathur H C Phatak
Indian Phytopathol 21(2):235-236
Jun 1968 464.8 IN2
Collectotrichum, Eggplant, Fungus diseases (plants).

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THE FUNGITOXIC MECHANISMS IN QUINOLINE COMPOUNDS AND THEIR CHELATES.
G L McNew H Gershon
Residue Rev 25:107-122
1969 389.9 R314
Agricultural chemistry, Fungicides, Fungus diseases (plants), Physiology, Quinoline.

10203-69
SOME OBSERVATIONS ON CYNIPS QUERCUS FOLII L. GALLS ON QUERCUS ROBUR L. IN BYDGOSZCZ PROVINCE. (PO)
Z Michno-Zatorska
Soc Sci Torunensis Stud Sect D (bot) 8(1-2):19-24 REF
1967 451 T65
Cynipid leaf galls, Cynipidae, Gall-making insects, Plant diseases, Plant galls, Plant physiology, Quercus robur. English summary.

10204-69
EFFECT OF CYTOKININS ON TOBACCO MOSAIC VIRUS PRODUCTION IN LOCAL-LESION AND SYSTEMIC HOSTS.
G E Milo B I S Srivastava
Virology 38(1):26-31 REF
May 1969 448.8 V81
Cytokinins, Kidney beans, Leaves, Mosaic, Plant diseases, Plant injuries, Tobacco, Tobacco mosaic virus, Virology, Virus diseases (plants).

10205-69
MODE OF ACTIÔN OF AGRICULTURAL ANTIBIOTICS DEVELOPED IN JAPAN.
T Misato
Residue Rev 25:93-106 REF
1969 389.9 R314
Agricultural chemistry, Antibiotics, Chemical reactions, Plant physiology.

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TRANSLOCATION OF TOBACCO RINGSPOT VIRUS IN CUCUMBER AND ZINNIA.
B J Moore J M McGuire
Ark Acad Sci Proc 22:67-71
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Cucumbers, Nematode vectors, Plant disease transmission, Plant nematodes, Ring spot, Tobacco, Virus diseases (plants), Xiphinema americanum.

10207-69
FUNGICIDAL CONTROL OF SMUT DISEASES OF CEREALS.
J G Moseman
U S Agr Res Serv CR (42):36P
May 1968 aSB608.G6M6
Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Grain, Smut.

10208-69
TOXIC METABOLITE OF ASPERGILLUS NIGER AND ITS ROLE IN ONION ROT DISEASE.
A Narain O Prakash
Indian Phytopathol 21(2):217-220 REF
Jun 1968 464.8 IN2
Aspergillus niger, Biological assay, Fungus diseases (plants), Onions, Plant diseases, Plant metaholism, Seeds, Toxins.

10209-69
DELETERIOUS EFFECT OF CERTAIN FUNGITOXICANTS ON THE FORMATION OF MYCORRHIZAE ON CORN BY ENDOGONE FASCICULATA AND ON CORN ROOT DEVELOPMENT.
O Neisham M B Linn
Phytopathology 59(3):297-300
Mar 1969 464.8 P56
Chemical control (plant diseases), Corn, Endogone fasciculata, Fungus diseases (plants).

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STUDIES ON THE BIOSYNTHESIS OF TMV. I. A SYSTEM APPROACHING A SYNCHRONIZED VIRUS SYNTHESIS IN A TOBACCO LEAF.
T Nilsson-Tillgren L Kolehmainen-Seveus D von Wettstein
Z Vererbungslehre 104(2):124-141 REF
28 May 1969 442.8 Z34
Electron microscopy, Mosaic, Synthesis, Tobacco, Tobacco mosaic virus, Virus diseases (plants).

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B P Pal
Indian Farming 19(1):5-7
Apr 1969 22 IN283
Crop varieties, Fungus diseases (plants), Plant breeding, Plant disease resistance, Rust, Wheat.

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THE PRESENCE OF TRISTEZA VIRUS IN CERTAIN SPECIES OF CITRUS IN CYPRUS.
A Papasolomontos C V Economides
China Plant Protect Bull 16(1):8-9
Feb 1968 464.9 C47
Citrus, Surveys, Tristeza, Virus diseases (plants).

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SURVIVAL OF ROOT-INFECTING FUNGI IN SOIL. XII. GERMINATION AND SURVIVAL OF ENDOCONIDIA AND CHLAMYDOSPORES OF THIELAVIOPSIS BASICOLA IN FALLOW SOIL AND IN SOIL ADJACENT TO GERMINATING BEAN SEED.
G C Papavizas P B Adams
Phytopathology 59(3):371-378 REF
Mar 1969 464.8 P56
Beans, Chlamydospores, Fungus diseases (plants), Soils, Thielaviopsis basicola.

10214-69
CHEMICAL CONTROL OF LOOSE SMUT IN BARLEY.
V D Pederson
U S Agr Res Serv CR (42):4
May 1968 aSB608.G6M6
Barley, Captan, Chemical control (plant diseases), Chlorinated hydrocarbons, Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin, 2,3-, Fungus diseases (plants), Loose smut, Seed treatment, Systemic fungicides, Thiram.

10215-69
HETEROBASIDION ANNOSUM.
D N Pegler J M Waterston
Commonwealth Mycol Inst Cmi Desc Path Fungi Bact (SET 20):192
1968 462.7 C73
Air-borne plant diseases, Coniferae, Fungus diseases (plants), Plant diseases, Plant geography, Polyporus, Taxonomy.

10216-69
PHELLINUS IGNIARIUS.
D N Pegler J M Waterston
Commonwealth Mycol Inst Cmi Desc Path Fungi Bact (SET 20):194
1968 462.7 C73
Air-borne plant diseases, Fungus diseases (plants), Plant diseases, Plant geography, Polyporus, Populus, Rot, Salix, Trees.

10217-69
PHELLINUS POMACEUS.
D N Pegler J M Waterston
Commonwealth Mycol Inst Cmi Desc Path Fungi Bact (SET 20):196
1968 462.7 C73
Air-borne plant diseases, Fungus diseases (plants), Plant diseases, Plant geography, Plums, Polyporus, Rot, Taxonomy.

10218-69
INONOTUS HISPIDUS.
D N Pegler J M Waterston
Commonwealth Mycol Inst Cmi Desc Path Fungi Bact (SET 20):193
1968 462.7 C73
Air-borne plant diseases, Fraxinus, Fungus diseases (plants), Plant diseases, Plant geography, Polyporus hispidus, Taxonomy, Trees.

10219-69
EVIDENCE FOR RESTRICTION OF A PLANT VIRUS TO PHLOEM CELLS.
W C Price
Indian Phytopathol 21(2):159-166 REF
Jun 1968 464.8 IN2
Electron microscopy, Phloem, Plant diseases, Plant physiology, Tristeza, Virus diseases (plants).

10220-69
RESULTS OBTAINED WITH A SYSTEMIC OXATHIIN FUNGICIDE IN FRANCE.
G Richard J Cognet
U S Agr Res Serv CR (42):21-23
May 1968 aSB608.G6M6
Chemical control (plant diseases), Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin, 2,3-, Fungus diseases (plants), Systemic fungicides, Ustilago avenae, Ustilago nuda.

10221-69
ELEMENTS FOR THE DIFFERENTIATED APPLICATION OF QUARANTINE AND CONTROL MEASURES OF POTATO CANKER. (RUM)
A Savulescu A Puscasu
Probl Agr 21(2):36-43 MAP REF
1969 21 R862
Canker, Plant disease control, Plant quarantine, Potatoes, Synchytrium endobioticum, Zoogeography.

10222-69
THE SYSTEMIC FUNGICIDE 2,3-DIHYDRO-5-CARBOXANILIDO-6-METHYL1,4-OXATHIIN.
B von Schmeling M Kulka
U S Agr Res Serv CR (42):1-2
May 1968 aSB608.G6M6
Barley, Chemical control (plant diseases), Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin, 2,3-, Fungus diseases (plants), Loose smut, Systemic fungicides, Ustilago nuda, Ustilago tritici, Wheat.

10223-69
MERCURY-RESISTANT PYRENOPHORA AVENAE IN NEW ZEALAND SEED OATS: A COMPARISON OF SIX DIFFERENT COMPOUNDS AS SEED DISINFECTANTS.
J E Sheridan V Vachrahhorn
New Zeal J Agr Res 11(4):812-816
Nov 1968 23 N4892
Agar, Antiseptics, Chemical control (plant diseases), Fungicide resistant fungi, Fungicides, Fungus diseases (plants), Leaf spot, Mercury compounds, Oats, Pyrenophora avenae, Seedling blight, Seedlings, Seeds.

10224-69
LOCAL LESION HOST FOR GRASSY SHOOT VIRUS OF SUGARCANE.
G R Singh
Cur Sci 38(6):148
20 Mar 1969 475 SCI23
Aphididae, Biological assay, Grassy shoot, Insect vectors, Plant injuries, Sugarcane, Virus diseases (plants).

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COMPARISON OF MYCELIAL AND SCLEROTIAL INOCULUM OF MACROPHOMINA PHASEOLI IN THE MORTALITY OF PINE SEEDLINGS UNDER VARYING SOIL CONDITIONS.
W H Smith
Phytopathology 59(3):379-382 REF
Mar 1969 464.8 P56
Fungus diseases (plants), Macrophomina phaseoli, Mortality, Pinus, Seedlings.

10226-69
STUDIES ON PHYSIOLOGY OF HELMINTHOSPORIUM AUSTRALIENSE THE CAUSAL AGENT OF A LEAF SPOT DISEASE OF BAJRA.
B S Thind J N Chand
Indian Phytopathol 21(2):190-194
Jun 1968 464.8 IN2
Fungus diseases (plants), Helminthosporium, Pearlmillet, Plant biochemistry, Plant diseases, Plant physiology.

10227-69
A NECROTIC TYPE VIRUS OCCURRING ON A WEED IN GERMANY.
J P Varma
Indian Phytopathol 21(2):176-181
Jun 1968 464.8 IN2
Compositae, Mosaic, Necrosis, Plant diseases, Tobacco, Virus diseases (plants), Weeds.

10228-69
PRELIMINARY NOTE ON THE OCCURRENCE OF BLACK POINT DISEASE OF WHEAT IN INDIA.
D Vir K L Adeakha L M Joshi K D Pathak
Indian Phytopathol 21(2):234-235
Jun 1968 464.8 IN2
Alternaria tenuis, Fungus diseases (plants), Helminthosporium, Plant diseases, Wheat.

10229-69
SEED TREATMENT TRIAL, 1967.
H A H Wallace
U S Agr Res Serv CR (42):8
May 1968 aSB608.G6M6
Barley, Chemical control (plant diseases), Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin, 2,3-, Fungus diseases (plants), Oats, Seed treatment, Smut, Stinking smut, Systemic fungicides, Wheat.

10230-69
VERTICILLIUM WILT OF TOBACCO. VIII. MOVEMENT OF CONIDIA OF VERTICILLIUM DAHLIAE KLEB. IN TOBACCO PLANTS.
D S C Wright
New Zeal J Agr Res 11(4):803-811 REF
Nov 1968 23 N4892
Conidia, Fungus diseases (plants), Plant disease resistance, Plant disease transmission, Plant diseases, Roots, Tobacco, Verticillium dahliae, Wilt.

10231-69
VERTICILLIUM WILT OF TOBACCO. VII. PATHOGENICITY OF ISOLATES OF VERTICILLIUM DAHLIAE KLEB. ON NEW ZEALAND TOBACCO.
D S C Wright J M Biss
New Zeal J Agr Res 11(4):797-802 REF
Nov 1968 23 N4892
Fungus diseases (plants), Microorganisms, Plant diseases, Tobacco, Verticillium dahliae, Wilt.

10232-69
RESPONSE TO PARASITES.
C E Yarwood
Annu Rev Plant Physiol 18:419-438 REF
1967 450 AN78
Bacterial diseases (plants), Bibliography, Fungus diseases (plants), Photosynthesis, Plant injuries, Plant metabolism, Plant respiration, Reviews, Virus diseases (plants).

ARTHROPODS

10233-69
GROWERS JOIN FORCES TO BATTLE THE BOLL WEEVIL.
Anonymous
Chem Cour 1:10-11
1969 421 C42
Anthonomus grandis, Azinphosmethyl, Chemical control (insects), Cotton, Crop yields, Curculionidae, Hibernation, Insect pests, Insect physiology, Insecticide application, Insecticides, Organophosphorus compounds, Spraying, Ultra-low-volume spraying.

10234-69
COMMON LEAFHOPPER-PLANTHOPPER POPULATIONS AND INCIDENCE OF TUNGRO VIRUS IN DIAZINON-TREATED AND UNTREATED RICE PLOTS.
S H Bae M D Pathak
J Econ Entomol 62(4):772-775
15 Aug 1969 421 J822
Chemical control (insects), Diazinon, Inazuma dorsalis, Insect vectors, Nephotettix, Nilaparvata lugens, Organophosphorus compounds, Plant disease transmission, Rice, Sogatella furcifera, Tungro, Virus diseases (plants).

10235-69
THE BIOLOGY, MODE OF ATTACK AND DAMAGE CAUSED BY THE THRIPS, (HAPLOTHRIPS TRITICI KURD) TO WHEAT CROPS. (RUM)
E Banita
Probl Agr 21(2):14-19
1969 21 R862

Chemical control (insects), Haplothrips, Insect behavior, Insect biology, Organophosphorus compounds, Plant injuries, Wheat. English, French and Russian abstracts.

10236-69
EUROPEAN RED MITE AND TWO-SPOTTED SPIDER MITE CONTROL ON APPLES IN CALIFORNIA.
W C Batiste A Berlowitz
J Econ Entomol 62(4):779-781
15 Aug 1969 421 J822
Acaricides, Apples, Chemical control (insects), Mites, Organophosphorus compounds, Panonychus ulmi, Tetranychus urticae.

10237-69
A COMPARISON OF MALATHION, DIAZINON, FENITROTHION AND DICHLORVOS FOR CONTROL OF SITOPHILUS ORYZAE (L.) AND RHYZOPERTHA DOMINICA (F.) IN WHEAT.
B R Champ R W Steele B G Genn K D Elms
J Stored Prod Res 5(1):21-48 REF
May 1969 421 J829
Chemical control (insects), Diazinon, Dichlorvos, Fenthion, Insecticides, Malathion, Organophosphorus compounds, Rhyzopertha dominica, Sitophilus oryzae, Wheat.

10238-69
COMPARATIVE EFFICIENCY OF TRANSMISSION OF ASTER YELLOWS BY ELYMANA VIRESCENS AND MACROSTELES FASCIFRONS AND THE RELATIVE CONCENTRATION OF THE CAUSAL AGENT IN THE VECTORS.
L N Chiykowski R C Sinha
J Econ Entomol 62(4):883-886 REF
15 Aug 1969 421 J822
Barley, Elymana virescens, Insect vectors, Macrosteles fascifrons, Plant disease transmission, Virus diseases (plants), Yellows.

10239-69
ALTERNATIVE HOST PLANTS OF TOBACCO LEAF-MINER (PHTHORIMAEA OPERCULELLA (ZELL.)).
I C Cunningham
Queensland J Agr Anim Sci 26(1):107-111
Mar 1969 23 Q37
Leaf miners, Phthorimaea operculella, Plants, Surveys.

10240-69
DISTRIBUTION OF LARVAL AND PUPAL INSTARS OF PLUSIA ARGENTIFERA GUEN. ON TOBACCO PLANTS.
I C Cunningham
Queensland J Agr Anim Sci 26(1):113-116
Mar 1969 23 Q37
Distribution, Larvae, Noctuidae, Plusiinae, Pupae, Tobacco.

10241-69
THE COLONIZATION AND SUCCESS IN GREECE OF SOME IMPORTED APHYTIS SPP. (HYM. APHELINIDAE) PARASITIC ON CITRUS SCALE INSECTS (HOM. DIASPIDIDAE).
P DeBaca I. C Argyriou
Entomophaga 12(4):325-342 MAP
1967 421 EN835
Aphytis, Biological control (insects), Citrus, Diaspididae.

10242-69
BIOLOGY AND CONTROL OF LEOPARD MOTH ON PEAR TREES IN THE UNITED ARAB REPUBLIC.
M E Eldefrawi I Hanhal S M Hammad
China Plant Protect Bull 15(4):70-76 REF
Aug 1967 464.9 C47
Azinphosmethyl, Carbaryl, Chemical control (insects), Chlorinated hydrocarbons, DDT, Insect biology, Insecticides, Malathion, Pears, Trichlorfon, Zeuzera pyrina.

10243-69
THE STEM BORER SESAMIA BOTANEPHAGA TAMS AND BOWDEN (LEP., NOCTUIDAE) AND THE MAIZE CROP IN CENTRAL ASHANTI, GHANA.
Endrody-Younga
Ghana J Agr Sci 1(2):103-131 REF
1968 S19.G5
Bionomics, Climate, Corn, Crop losses, Crop yields, Insect outbreaks, Insect pests, Insect physiology, Noctuidae. French summary.

10244-69
BEES AS PESTS.
D C Erwin
World Rev Pest Contr 8(1,SPRING):4
1969 79.8 W89
Apidae, Cotton, Insect pollinators, Plant breeding.

10245-69
A REVIEW OF THE USE OF INSECTICIDES ON THE MAIN AGRICULTURAL CROPS OF THE WORLD--3. SECTION 3: COTTON.
A D Hanna
World Rev Pest Contr 8(1,SPRING):23-45 REF
1969 79.8 W89
Chemical control (insects), Cotton, Insect control, Insecticides, Plant injuries, Reviews, Zoogeography.

10246-69
TWENTY-SIX VARIETIES OF FORAGE CROPS EVALUATED FOR RESISTANCE TO FEEDING BY MELANOPLUS SANGUINIPES.
G B Hewitt
Entomol Soc Amer Ann 62(4):737-741
Jul 1969 420 EN82
Forage plants, Melanoplus sanguinipes, Plant pest resistance.

10247-69
SPRAY DROPLET SIZE IN THE CONTROL OF SPRUCE BUDWORM, BOLL WEEVIL, BOLLWORM AND CABBAGE LOOPER.
C M Himel A D Moore
J Econ Entomol 62(4):916-918
15 Aug 1969 421 J822
Aerial spraying, Anthonomus grandis, Carbamates, Chemical control (insects), Choristoneura fumiferana, Cotton, Dimethylamino-3,5-xylyl methylcarbamate, 4-, Environment, Forest insects, Heliothis zea, Leaves, Methyl parathion, Particle size determination, Pesticide residues, Pyrethrum, Spraying, Trichoplusia ni.

10248-69
ORGANOPHOSPHORUS ACARICIDES FOR CONTROLLING THE TWO-SPOTTED SPIDER MITE ON STRAWBERRIES.
A F Howland J Wilcox L I Butler D A George
J Econ Entomol 62(4):939-940
15 Aug 1969 421 J822
Acaricides, Chemical control (insects), Demeton, Dicofol, Dimethoate, Disulfoton, Mites, Organophosphorus compounds, Phorate, Soil sanitation, Spraying, Strawberries, Tetranychus urticae.

10249-69
SYMPOSIUM ON THE PRINCIPLES OF THE APPLICATION OF MICROBIOLOGICAL PREPARATIONS IN NATURE. (FR)
B Hurpin
Entomophaga 13(4):265-269
1968 421 EN835
Bacillus thuringiensis, Biological control (insects), Dendrolimus spectabilis, Insect ecology, Porthetria dispar, Symposia.

10250-69
ATHERIGONA SP. (ANTHOMYIIDAE: DIPTERA) AS A PEST OF WHEAT IN RAJASTHAN.
H C Joshi R M Khan
Indian J Entomol 30(3):238
Sep 1968 420 IN23
Anthomyiidae, Plant injuries, Wheat, Zoogeography.

10251-69
TREATMENT OF MUSTARD AND RADISH SEEDS FOR THE CONTROL OF MUSTARD SAWFLY, ATHALIA PROXIMA KLUG. AT SEEDLING STAGE.
M G Jotwani T D Yadav P Sircar P B Mookherjee
Indian J Entomol 30(2):133-136
Jun 1968 420 IN23
Athalia proxima, Brassica, Chemical control (insects), Chlorinated hydrocarbons, Ethylthio)ethyl O,O-dimethyl phosphorodithioate, S-(2-, Insecticides, Lindane, Organophosphorus compounds, Phorate, Phosphamidon, Radishes, Seed treatment.

10252-69
BIOLOGICAL CONTROL OF OLIVE SCALE, PARLATORIA OLEAE (COLVEE), IN A DECIDUOUS FRUIT ORCHARD IN CALIFORNIA.
C E Kennett
Entomophaga 12(5):461-474
1967 421 EN835
Biological control (insects), Fruit, Insect biology, Orchards, Parlatoria oleae.

10253-69
EASY-TO-KILL PESTS OF FRUIT TREES...CODLING MOTH.
H F Lower
S Australia J Agr 72(5):179-182
Dec 1968 23 SO84
Azinphosmethyl, Carbamates, Carbaryl, Chemical control (insects), Fruit, Insect morphology, Insect pests, Insect traps, Insecticides, Laspeyresia pomonella, Metamorphosis, Olethreutidae, Organophosphorus compounds, Spraying.

10254-69
CONTRIBUTION TO THE KNOWLEDGE OF THE NATURAL ENEMIES OF BISSETIA STENIELLUS (HAMPSON) (LEP.: PYRALIDAE).
K C Mathur
Entomophaga 12(5):443-448 REF
1967 421 EN835
Bissetia steniellus, Braconidae, Ichneumonidae, Natural control (insects), Predaceous insects, Pyralidae, Sugarcane.

10255-69
STRUCTURE, STABILITY, AND ENERGY FLOW IN PLANTS AND ARTHROPODS IN A SERICEA LESPEDEZA STAND.
E F Menhinick
Ecol Monogr 37(3,SUMMER):255-272 REF
1967 410 EC72
Arthropoda, Ecology, Energy, Field studies, Insect ecology, Lespedeza cuneata, Population.

10256-69
THE FIRST LARGE-SCALE EXPERIMENTATION WITH THE BIOLOGICAL CONTROL OF THE OLIVE FLY (DACUS OLEAE GMEL.) BY MEANS OF OPIUS CONCOLOR SZEPL. SICULUS MON. IN SICILY. (FR)
S Monastero P Delanoue
Entomophaga 12(4):381-398 MAP
1967 421 EN835
Biological control (insects), Dacus oleae, Opius concolor. English abstract.

10257-69
SUSCEPTIBILITY OF SEVERAL FOREST INSECTS OF BRITISH COLUMBIA TO COMMERCIALLY PRODUCED BACILLUS THURINGIENSIS. II. LABORATORY AND FIELD PATHOGENICITY TESTS.
O N Morris
J Invertebrate Pathol 13(2):285-295 REF
Mar 1969 421 J826
Acleris variana, Bacillus thuringiensis, Biological control (insects), Epinotia tsugana, Forest insects, Hyphantria cunea, Malacosoma pluviale, Melanolophia imitata, Mortality, Thuricide, Vanessa cardui.

10258-69
EFFICIENCY OF THREE COLONIES OF MELON APHIDS AS TRANSMITTERS OF TRISTEZA VIRUS.
P A Norman R A Sutton
J Econ Entomol 62(4):968
15 Aug 1969 421 J822
Aphis gossypii, Insect vectors, Oranges, Plant disease transmission, Tristeza, Virus diseases (plants).

10259-69
NEW RECORD OF HYMENOPTEROUS PARASITES OF PHYTOMYZA ATRICORNIS (MEIGEN), A SERIOUS PEST OF PEA.
S C Odak S V Dhamdhere A S Kaurava
Indian J Entomol 30(3):250
Sep 1968 420 IN23
Eulophidae, Natural control (insects), Opius, Parasitic insects, Peas, Phytomyza atricornis.

10260-69
THE EFFECT OF REMOVAL OF ARTHROPOD PREDATORS ON AN INFESTATION OF BREVICORYNE BRASSICAE (HEMIPTERA, APHIDIDAE) ON BRUSSELS SPROUTS.
E Pollard
Entomol Exp Appl 12(1):118-124 REF
1969 421 EN895
Brevicoryne brassicae, Brussels sprouts, Cerambycidae, Population, Predaceous insects, Syrphidae.

10261-69
NOTES AND CONSIDERATIONS ON THE CONTROL OF THE CYPRESS MOTH, CATORIA UNIPENNARIA (GUEN.) (LEPIDOPTERA, GEOMETRIDAE). (SP
A Saldarriaga V L Posada O
Agr Trop 25(3):143-145
Mar 1969 26 AG8
Biological control (insects), Chemical control (insects), Dichlorvos, Geometridae.

10262-69
TOXICITY OF EIGHT INSECTICIDES TO THE COCCINELLID PREDATOR CHILOMENES SEXMACULATA FABR.,
J M Satpathy G K Padhi D N Dutta
Indian J Entomol 30(2):130-132
Jun 1968 420 IN23
Chemical control (insects), Chilomenes sexmaculata, Chlorinated hydrocarbons, Insecticides, Organophosphorus compounds, Toxicology.

10263-69
CHEMICAL CONTROL OF DROSICHA MANGIFERAE (GREEN), A SERIOUS PEST OF CITRUS SPP. IN MADHYA PRADESH.
D K Saxena R R Rawat
Indian J Entomol 30(1):66-68
Mar 1968 420 IN23
Chemical control (insects), Chlorinated hydrocarbons, Citrus, Diazinon, DDT, Drosicha mangiferae, Endrin, Insecticides, Malathion, Organophosphorus compounds, Parathion.

10264-69
CONTROL OF FLORIDA RED SCALE IN FLORIDA WITH THE PARASITE APHYTIS HOLOXANTHUS.
A G Selhime M H Muma W A Simanton C W McCoy
J Econ Entomol 62(4):954-955
15 Aug 1969 421 J822
Aphytis holoxanthus, Biological control (insects), Chrysomphalus aonidum, Citrus, Parasitic insects, Population.

10265-69
INTEGRATED CONTROL OF INSECTS. A CHALLENGE FOR SCIENTISTS.
R. F. Smith
Agr Sci Rev 7(1, 1ST QUARTER):1-5
1969 431.3 AG893
Insect biology, Insect ecology, Integrated control (insects), Reviews.

10266-69
STUDIES ON THE CONTROL OF THE RED HAIRY CATERPILLAR, AMSACTA MOOREI BUTLER.
B P Srivastava R K Mishra
Indian J Entomol 30(2):125-129 REF
Jun 1968 420 IN23
Aldrin, Amsacta moorei, Benzene hexachloride, Chemical control (insects), Chlordane, Chlorinated hydrocarbons, Dichlorvos, Insecticides, Organophosphorus compounds, Parathion.

10267-69
NEEDLE MINER INFESTATIONS IN LODGEPOLE PINE EAST OF THE SIERRA CREST.
G R Struble
USDA Forest Serv Res Note PSW- (177):2P
1968 A99.9 F7652
Coleotechnites milleri, Defoliation, Forest insects, Insect pests, Insect physiology, Insect populations, Pinus contorta, Zoogeography.

10268-69
PRELIMINARY STUDIES ON THE INTEGRATED CONTROL OF THE PEST COMPLEX ON COWPEA, VIGWA UNGUICULATA WALP., IN NIGERIA.
T A Taylor
J Econ Entomol 62(4):900-902
15 Aug 1969 421 J822
Bacillus thuringiensis, Cowpeas, Insect pests, Integrated control (insects), Lepidoptera, Lindane.

10269-69
CONTROL OF BRACHYRHINUS CRIBRICOLLIS INJURING ORNAMENTALS.
G P Wene
J Econ Entomol 62(4):941-942
15 Aug 1969 421 J822
Brachyrhinus cribricollis, Carbamates, Carbaryl, Chemical control (insects), Chlordane, Chlorinated hydrocarbons, Chloro-1-(2,4,5-trichlorophenyl)vinyl dimethyl phosphate, 2-, Insecticides, Organophosphorus compounds, Ornamental plants, Oxydemetonmethyl, Spraying.

10270-69
STUDIES ON INSECT DAMAGE AND GERMINATION OF SEEDS. III. GERMINATION OF WHEAT JOWAR AND MAIZE SEEDS DAMAGED BY THE DEVELOPING GRUBS OF SITOPHILUS ORYZAE L. AND RHIZOPERTHA DOMINICA F.,
T D Yadav P Sircar M G Jotwani
Indian J Entomol 30(1):83-84
Mar 1968 420 IN23
Corn, Crop losses, Rhizopertha dominica, Seed germination, Sitophilus oryzae, Wheat.

NEMATODES

10271-69
NEMATOCIDES. PATENT 3,457,353.
W Hafner E Kopp K Milles
Us Patent Office Offic Gaz 864(4):1322
22 Jul 1969 156.65 OF2
Chemical control (nematodes), Nematocides, Patents, Sodium monochloroacetaldehyde bisulfite, Sulfites.

WEEDS

10272-69
BIOLOGICAL CONTROL OF CUSCUTA SPP. II. BIOLOGY AND HOST-PLANT RANGE OF MELANAGROMYZA CUSCUTAE HERING (DIPT. AGROMYZIDAE).
G M Baloch A I Mohyuddin M A Ghani
Entomophaga 12(5):481-489
1967 421 EN835
Biological control (weeds), Cuscuta, Insect biology, Melanagromyza, Phytophagous insects.

10273-69
METABOLISM OF TRIFLURALIN IN PEANUTS AND SWEET POTATOES.
P K Biswas W Hamilton
Weed Sci 17(2):206-211 REF
Apr 1969 79.8 W41
Biological assay, Cucumbers, Herbicides, Peanuts, Plant metabolism, Sweetpotatoes, Toxicology, Trifluralin.

10274-69
BIOCHEMICAL BASIS FOR PLANT COMPETITION.
C C Black T M Chen R H Brown
Weed Sci 17(3):338-344 REF
Jul 1969 79.8 W41
Competition, Light, Literature, Photosynthesis, Plant biochemistry, Plant ecology, Plant physiology, Surveys, Temperature, Weeds.

10275-69
RESPONSE OF TROPICAL VEGETATION TO HERBICIDES.
R W Bovey C C Dowler J D Diaz-Colon
Weed Sci 17(3):285-290
Jul 1969 79.8 W41
Cacodylic acid, Chemical control (weeds), D, 2,4-, Diquat, Herbicides, Picloram, T, 2,4,5-, Tropical plants.

10276-69
LIGHT INTENSITY AND THE ABSORPTION AND TRANSLOCATION OF 2,4,5-T BY WOODY PLANTS.
H A Brady
Weed Sci 17(3):320-322
Jul 1969 79.8 W41
Absorption, Herbicides, Ilex opaca, Pinus palustris, Plant physiology, Quercus nigra, Quercus stellata, T, 2,4,5-, Translocation.

10277-69
INFLUENCE OF WEED COMPETITION ON SORGHUM GROWTH.
O C Burnside G A Wicks
Weed Sci 17(3):332-334
Jul 1969 79.8 W41
Competition, Crop yields, Plant ecology, Plant physiology, Population, Sorghum, Weeds.

10278-69
METABOLISM OF ORGANIC PESTICIDE CHEMICALS IN HIGHER PLANTS.
J E Casida L Lykken
Annu Rev Plant Physiol 20:607-636 REF
1969 450 AN78
Amides, Anilides, Carbamates, Chlorinated hydrocarbons, Fungicides, Herbicides, Insecticides, Organic compounds, Plant metabolism, Reviews, Toxicology, Triazines.

10279-69
AFRICAN FEATHER GRASS--A WEED WORTH WATCHING.
F R H Chapman
S Australia J Agr 72(6):212-213
Jan 1969 23 SO84
Bromacil, Chemical control (weeds), DPA, Herbicides, Monuron, Pennisetum macrourum, Trichloroacetic acid, Weeds.

10280-69
EFFECTS OF SEVERAL HERBICIDES ON YEWS AND JAPANESE MAPLES.
L L Danielson C May
Weed Sci 17(2):142-144 REF
Apr 1969 79.8 W41
Acer palmatum, Amitrole, Dinoseb, Diuron, Herbicides, CIPC, Sesone, Simazine, Taxus, Trifluralin.

10281-69
CONTROL OF AQUATIC PLANTS WITH DITHIODIUNDECANOIC ACID. PATENT 3,432,286.
Us Patent Office Offic Gaz 860(2):524
11 Mar 1969 156.65 OF2

Aquatic plants, Chemical control (weeds), Chemicals, Dithiodiundecanoic acid, Growth factors, Inhibitors, Patents.

10282-69
A METHOD FOR SPRAYING INDIVIDUAL TREES.
C C Dowler J R McCalmont M H Byrom
Weed Sci 17(2):260-262
Apr 1969 79.8 W41
Chemical control (weeds), Herbicides, Methodology, Pesticide application, Spraying, Trees, Weed control.

10283-69
DOWNY BROME CONTROL BY SOIL-ACTIVE HERBICIDES FOR REVEGETATION OF RANGELANDS.
R A Evans R E Eckert B L Kay J A Young
Weed Sci 17(2):166-169
Apr 1969 79.8 W41
Artemisia tridentata, Atrazine, Bromus tectorum, Chemical control (weeds), Herbicides, Ranges, Weed control.

10284-69
YELLOW FOXTAIL COMPETITION IN GRAIN SORGHUM.
K C Feltner H R Hurst L E Anderson
Weed Sci 17(2):211-213 REF
Apr 1969 79.8 W41
Competition, Population, Setaria glauca, Sorghum, Water, Weeds.

10285-69
TALL WATERHEMP COMPETITION IN GRAIN SORGHUM.
K C Feltner H R Hurst L E Anderson
Weed Sci 17(2):214-216
Apr 1969 79.8 W41
Amaranthaceae, Competition, Sorghum, Water, Weeds.

10286-69
BEHAVIOR OF PYRAZON IN SOIL.
R Frank C M Switzer
Weed Sci 17(3):323-326
Jul 1969 79.8 W41
Brassica, Chromatography, Decomposition, Herbicides, Pyrazon, Soil microorganisms, Spectrophotometry.

10287-69
ABSORPTION AND TRANSLOCATION OF PYRAZON BY PLANTS.
R Frank C M Switzer
Weed Sci 17(3):365-370
Jul 1969 79.8 W41
Absorption, Chenopodium album, Herbicides, Plant physiology, Pyrazon, Sugar beets, Translocation.

10288-69
EFFECTS OF PYRAZON ON GROWTH, PHOTOSYNTHESIS, AND RESPIRATION.
R Frank C M Switzer
Weed Sci 17(3):344-348 REF
Jul 1969 79.8 W41
Herbicides, Photosynthesis, Plant biochemistry, Plant physiology, Plant respiration, Pyrazon.

10289-69
1967 PRE-EMERGENCE WEED CONTROL IN POTATOES ON LONG ISLAND.
D H Fricke S L Dallyn
Northeast Weed Contr Conf Proc 22:417-423
03 Jan 1968 79.9 N814
Chemical control (weeds), Crop yields, Herbicides, Potatoes.

10290-69
PHYTOTOXICITY OF BEMETHYLATED ANALOGS OF DIPHENAMID.
W A Gentner
Weed Sci 17(3):284-285
Jul 1969 79.8 W41
Amaranthus retroflexus, Chemical control (weeds), Chenopodium album, Diphenamid, Herbicides, Phytotoxicity, Rape, Tomatoes.

10291-69
REPEATED, FOLIAR APPLICATIONS OF HERBICIDES ON JOHNSONGRASS.
K C Hamilton
Weed Sci 17(2):245-250
Apr 1969 79.8 W41
Chemical control (weeds), Dalapon, Disodium methanearsonate, Foliar application, Herbicides, Monosodium acid methanearsonate, Sorghum halepense, Weed control.

10292-69
TRANSLOCATION OF ASSIMILATES AND DALAPON IN ESTABLISHED JOHNSONGRASS.
R J Hull
Weed Sci 17(3):314-320 REF
Jul 1969 79.8 W41
Carbohydrates, Dalapon, Herbicides, Plant metabolism, Plant physiology, Radioactive tracers, Sorghum halepense, Translocation.

10293-69
THE RESPONSE OF FUMITORY TO VARIOUS HERBICIDES.
L S Jeffery J D Nalewaja
Weed Sci 17(3):355-358
Jul 1969 79.8 W41
Chemical control (weeds), Dichlorprop, Fumaria officinalis, Herbicides, Humidity, Ioxynil, Temperature, Weed control.

10294-69
SELECTIVE GRASS CONTROL WITH SIDURON.
H D Kerr
Weed Sci 17(2):181-186
Apr 1969 79.8 W41
Chemical control (weeds), Digitaria sanguinalis, Echinochloa crusgalli, Fenuron, Grasses, Ipc, Seed treatment, Siduron, Weed control.

10295-69
BASIS FOR SELECTIVITY OF LINURON ON CARROT AND COMMON RAGWEED.
H Kuratle E M Rahn C W Woodmansee
Weed Sci 17(2):216-219
Apr 1969 79.8 W41
Ambrosia, Carrots, Herbicides, Linuron, Phytotoxicity, Plant metabolism, Toxicology.

10296-69
WEED CONTROL IN SUGARBEETS.
W F Meggitt
Sugar Beet J 32(3,SPRING):10-11
1969 66.8 SU38
Chemical control (weeds), Chloro-N-isopropylacetanilide, 2-, Herbicides, Pyrazon, Sugar beets, Trichloroacetic acid.

10297-69
CONTROL OF JOHNSONGRASS ON DRAINAGE DITCHBANKS IN SUGARCANE.
R W Millhollon
Weed Sci 17(3):370-373
Jul 1969 79.8 W41
Bromacil, Chemical control (weeds), Cynodon dactylon, Dalapon, Drainage ditches, Fenac, Herbicides, Monosodium acid methanearsonate, Sodium chlorate, Sorghum halepense, Sugarcane, Trichloroacetic acid, Weed control.

10298-69
EFFECT OF NITROGENOUS MATERIALS ON THE UPTAKE OF TRIAZINE HERBICIDES.
W H Minshall
Weed Sci 17(2):197-201
Apr 1969 79.8 W41
Herbicides, Plant physiology, Potassium nitrate, Tomatoes, Triazines, Urea.

10299-69
MECHANISMS OF ACTION OF HERBICIDES.
D E Moreland
Annu Rev Plant Physiol 18:365-386 REF
1967 450 AN78
Bibliography, Herbicides, Hill reaction, Nucleic acids, Photosynthesis, Plant metabolism, Proteins, Reviews, Toxicology.

10300-69
CHEMICAL STIMULATION OF ETHYLENE EVOLUTION AND BUD GROWTH.
P W Morgan R E Meyer M G Merkle
Weed Sci 17(3):353-355
Jul 1969 79.8 W41
Acacia farnesiana, Defoliants, Ethylene, Herbicides, Organophosphorus compounds, Plant physiology, Prosopis juliflora.

10301-69
REACTION OF FLAX TO DICAMBA APPLIED AT SEVERAL STAGES.
J D Nalewaja
Weed Sci 17(3):385-387
Jul 1969 79.8 W41
Chemical control (weeds), Dicamba, Flax, Herbicide application, Herbicides, Weed control.

10302-69
EFFECT OF SOIL WATER STRESS AND SOIL TEMPERATURE ON TRANSLOCATION OF DIURON.
Weed Sci 17(3):304-309 REF
Jul 1969 79.8 W41
Diuron, Herbicides, Plant physiology, Soil moisture, Soil temperature, Translocation, Wheat.

10303-69
RESPONSE OF IRONWEED AND BUCKBRUSH TO HERBICIDES AND TO HERBICIDES IN COMBINATIONS WITH MOWING, NITROGEN FERTILIZER, AND SURFACTANTS.
E J Peters J F Stritzke
U S D A Tech Bull (1400):16P REF
Feb 1969 1 AG84TE
D, 2,4-, Dicamba, Fenac, Fertilizers, Herbicides, Mowing, Nitrogen, Pesticide application, Phenoxy acid compounds, Picloram, Surface-active agents, Symphoricarpos, Trichlorobenzoic acid, 2,3,6-, Vernonia.

10304-69
TRANSLOCATION OF THE HERBICIDE DICAMBA IN PURPLE NUTSEDGE, CYPERUS ROTUNDUS.
B Ray M Wilcox
Physiol Plant 22(3):503-505
05 Jun 1969 450 P564 (1)
Chromatography, Cyperus rotundus, Dicamba, Herbicides, Plant physiology, Plant translocation.

Pairs of nutsedge plants connected by rhizomes were planted, each in a separate pan, without cutting the rhizomes. One plant within each pair was treated with 5.7 kg. of dicamba per hectare seven days later. Ten days after treatment, the treated plants and those attached by rhizomes were harvested separately and analyzed by gas chromatography. The attached plants were found to contain 6 percent as much dicamba as did the directly treated plants.

10305-69
EFFECTS OF CHLORPROPHAM VAPORS ON DODDER SEEDLINGS.
C H Slater J H Dawson W R Furtick A P Appleby
Weed Sci 17(2):238-241 REF
Apr 1969 79.8 W41
Alfalfa, Chemical control (weeds), Cuscuta, CIPC, Seedlings, Vapors, Weed control.

10306-69
EFFECTS OF GROWTH REGULATORS AND HERBICIDES ON GERMINATION OF HYDRILLA TURIONS.
K K Steward
Weed Sci 17(3):299-301 REF
Jul 1969 79.8 W41
Aquatic plants, Chemical control (weeds), D, 2,4-, Diquat, Gibberellic acid, Herbicides, Paraquat, Phytotoxicity, Plant growth regulator, Weed control, Weeds.

10307-69
HERBICIDE SCREENING TESTS DURING 1967 IN AGRICULTURAL CROPS AND POTTED HERBS. (DU)
J Stryckers M van Himme
Ghent Landbouwhoogesch Centrum Onkruidonderz Mededel (7):1-15
1967 79.9 G342M
Biological assay, Crops, Herbicide application, Herbicides, Herbs.

10308-69
ABSORPTION AND PENETRATION OF PICLORAM IN POTATO TUBER DISCS.
C R Swanson J R Baur
Weed Sci 17(3):311-314
Jul 1969 79.8 W41
Absorption, Chromatography, Herbicides, Penetration, Picloram, Plant physiology, Potatoes, Temperature, Toxicology.

10309-69
SEED DORMANCY AND GERMINATION IN ECOTYPES OF JOHNSONGRASS.
R B Taylorson C G McWhorter
Weed Sci 17(3):359-361 REF
Jul 1969 79.8 W41
Light, Plant ecology, Potassium nitrate, Seed dormancy, Seed germination, Sorghum halepense, Temperature, Weeds.

10310-69
CONTROL OF GREEN RABBITBRUSH AND BIG SAGEBRUSH WITH 2,4-D AND PICLORAM.
P T Tueller R A Evans
Weed Sci 17(2):233-235
Apr 1969 79.8 W41
Agropyron, Artemisia tridentata, Chemical control (weeds), Chrysothamnus, D, 2,4-, Picloram, Weed control.

10311-69
EFFECTS OF 2,4,5-T DURING THE APPROACH OF WOODY PLANT DORMANCY.
R P Upchurch J A Keaton H D Coble
Weed Sci 17(2):229-233 REF
Apr 1969 79.8 W41
Acer rubrum, Herbicides, Plant dormancy, Quercus laevis, T, 2,4,5-.

10312-69
RESPONSE OF SOYBEANS TO 2,4-D, DICAMBA, AND PICLORAM.
L M Wax L A Knuth F W Slife
Weed Sci 17(3):388-393 REF
Jul 1969 79.8 W41
D, 2,4-, Dicamba, Herbicide application, Herbicides, Picloram, Plant physiology, Soybeans.

10313-69
ACCURATELY PREDICTING A HERBICIDES POTENTIAL.
J W Whitworth W P Anderson
Weed Sci 17(3):290-293
Jul 1969 79.8 W41
Biological assay, Chemical control (weeds), Field test, Herbicides.

10314-69
A SPRAYER FOR APPLICATION OF SMALL AMOUNTS OF HERBICIDES TO FLATS.
M Wilcox
Weed Sci 17(2):263-264 REF
Apr 1969 79.8 W41
Herbicides, Methodology, Pesticide application, Spraying.

10315-69
EPTC EFFECTS ON SICKLEPOD PETIOLAR FATTY ACIDS.
R E Wilkinson W S Hardcastle
Weed Sci 17(3):335-338 REF
Jul 1969 79.8 W41
Cassia obtusifolia, Ethyl N,N-dipropylthiocarbamate, Fatty acids, Herbicides, Plant biochemistry, Plant physiology.

10316-69
THE EFFECTS OF TWO PHYTOBLAND OILS ON THE POSTEMERGENCE ACTIVITY OF BROMOXYNIL AND DNBP APPLIED IN TWO SPRAY VOLUMES IN ALFALFA.
H P Wilson R D Hnicki
Northeast Weed Contr Conf Proc 22:294-298
03 Jan 1968 79.9 N814
Alfalfa, Bromoxynil, Chemical control (weeds), Dinoseb, Plant injuries.

10317-69
EFFECTS OF HIGH RATES OF TRIFLURALIN AND VERNOLATE ON SOYBEAN YIELD AND GROWTH.
E L Wisk R H Cole
Northeast Weed Contr Conf Proc 22:482-486
03 Jan 1968 79.9 N814
Chemical control (weeds), Crop yields, Plant injuries, Propyl n,n-dipropylthiolcarbamate, Soybeans, Trifluralin.

OTHER PESTS

10318-69
METABOLISM OF STRYCHNINE NITRATE APPLIED FOR THE CONTROL OF THE BEAR.
T Inukai
Residue Rev 25:315-318
1969 389.9 R314
Bears, Chemical control (pests), Crop losses, Livestock, Pest control, Strychnine.

10319-69
USE OF METALDEHYDE AS DUSTS AND SPRAYS TO CONTROL THE GIANT AFRICAN SNAIL ACHATINA FULICA BOWDICH.
M R G K Nair N M Das A Jacob
Indian J Entomol 30(1):58-60
Mar 1968 420 IN23
Achatina fulica, Chemical control (pests), Dusting, Metaldehyde, Molluscacides, Snails, Spraying.

10320-69
OBSERVATIONS ON THE CONTROL OF ACHATINA FULICA BOWDICH, THE GIANT AFRICAN SNAIL WITH METHLDEHYDE.
P D Srivastava Y N Srivastava J Singh
Indian J Entomol 30(2):175-176
Jun 1968 420 IN23
Achatina fulica, Baits, Chemical control (pests), Metaldehyde, Molluscacides, Snails.

10321-69
ROLE OF HERMIT CRABS IN THE BIOLOGICAL CONTROL OF ACHATINA FULICA (BOWDICH) ON THE ANDAMANS.
P D Srivastava
Indian J Entomol 30(3):217-219
Sep 1968 420 IN23
Achatina fulica, Biological control (pests), Crabs, Plant pest control, Population.

10322-69
GULELLA (INDOENNEA) BICOLOR (HUTTON), A PREDATOR OF GIANT AFRICAN SNAIL ACHATINA FULICA BOWDICH.
P D Srivastava
Indian J Entomol 30(3):240-241
Sep 1968 420 IN23
Achatina fulica, Biological control (pests), Snails, Zoogeography.

10323-69
RELATIONSHIP BETWEEN AMOUNT OF THINNING, TIME OF CARE, AND DAMAGES CAUSED BY RED DEER. (GE)
J Steiner
Sozialistische Forstwirtsch (18):365-369
1968 99.8 W143
Deer, Forest cutting systems, Time, Tree injuries.

LIVESTOCK PROTECTION

DISEASES

10324-69
VITAMIN A METABOLISM IN PROTEIN DEFICIENCY.
H R Adhikari U K Vakil A Sreenivasan
J Biochem 5(3):132-137, REF
Sep 1968 385 J822
Biochemistry, Deficiency diseases, Metabolism, Proteins, Rats, Vitamin A.

10325-69
INCIDENCE OF BLUETONGUE REPORTED CALENDAR YEAR 1967.
4P MAP
Jul 1968 A41.9 R317IN
Bluetongue, Epidemiology, Livestock diseases, Sheep, Virus diseases (animals).

10326-69
A SALMONELLA TYPHIMURIUM INVOLVED IN THE REGULATION OF ISOLEUCINE, VALINE AND LEUCINE BIOSYNTHESIS.
R R Alexander J M Calvo
Genet Soc Amer Rec 61(3):539-556 REF
Mar 1969 442.9 G28
Amino acids, Biochemistry, Genetics, Salmonella typhimurium.

10327-69
TOXOPLASMA GONDII: ISOLATION OF SAMPLES STARTING FROM THE DIAPHRAGMS OF CLINICALLY HEALTHY PIGS SLAUGHTERED IN SAO PAULO, BRAZIL. (POR)
V do Amhral R Macruz
Sao Paulo Inst Biol Arq 3611,JAN-MAR):47-54
Mar 1969 442.9 SA6
Animal diseases, Swine, Toxoplasma gondii.

Eight strains of Toxoplasma gondii were isolated from diaphragms of 25 apparently healthy pigs obtained from the slaughter-houses of Sao Paulo city and to be bound for human consumption. One of the eight strains was not virulent for mice and was detected only in histological section of material from mice after the fifth blind passage.

10328-69
HOG CHOLERA AND OTHER COMMUNICABLE SWINE DISEASES. MISCELLANEOUS AMENDMENTS.
R J Anderson
Fed Regist 34(100):8153-8157
24 May 1969 L1.451
Hog cholera, Legislation, Livestock diseases, Swine.

10329-69
OPERATOR CONSTITUTIVE MUTATIONS IN THE LEUCINE OPERON OF SALMONELLA TYPHIMURIUM.
J M Calvo P Margolin H E Umbarger
Genet Soc Amer Rec 61(4):777-787 REF
Apr 1969 442.9 G28
Biochemistry, Genes, Leucine, Salmonella typhimurium.

10330-69
INACTIVATED HOG CHOLERA VIRUS VACCINE. PATENT 3,456,053.
J G Crawford
Us Patent Office Offic Gaz 864(3):967
15 Jul 1969 156.65 OF2
Hog cholera vaccines, Hog cholera virus, Patents, Swine.

10331-69
VACCINATED CATTLE.....CAN HARBOR FOOT AND MOUTH DISEASE.
Agr Res 17(11):7
May 1969 1.98 AG84
Cattle, Disease transmission, Foot-and-mouth disease, Immunity, Livestock diseases, Pharynx, Virology, Virus diseases (animals).

10332-69
FOOT LAMENESS IN PIGS.
K J Dobson
S Australia J Agr 72(6):227-230
Jan 1969 23 SO84
Baths, Concrete, Drug therapy, Feet, Foot rot (animals), Infectious diseases, Lameness, Livestock diseases, Swine, Ulcers.

10333-69
MUTAGENIC EFFECTS OF TEPA AND METEPA IN MICE.
S S Epstein Y Bishop
Genetics 61(2,PT 2,SUPPL):S16
1969 442.8 G28
Animal genetics, Chemosterilants, Metepa, Mice, Tepa.

Mutagens

10334-69
CONTROL METHOD OF INACTIVATED VACCINES AGAINST THE NEWCASTLE DISEASE BY MEANS OF THE TITULATION OF NEUTRALIZING ANTIBODIES. (SP)
J M Grillo Torrado P B de Muslero P A Arieta
Rev Invest Agropecuar Ser 4 Patol Anim 4(6):65-80
1967 41.8 R3227
Antibodies, Chickens, Methodology, Newcastle disease vaccines, Serological tests. English abstract.

10335-69
BLOAT ON DOLICHOS LABLAB.
R I Hamilton G Ruth
Trop Grasslands 2(2):135-136
Oct 1968 SB197.A1T7
Animal diseases, Animal nutrition, Bloat, Cattle, Grazing, Hyacinth dolichos, Legumes, Surface-active agents.

10336-69
THE RELATIVE INCIDENCE OF VIBRIO FETUS INFECTION IN DAIRY AND BEEF CATTLE IN NEW SOUTH WALES.
D Jakovljevic H E R Beattie
Australian Vet J 45(6):275-278
Jun 1969 41.8 AU72
Cattle, Surveys, Vibrio fetus.

10337-69
TETRACYCLINE ANTIBIOTIC COMPOSITIONS FOR ORAL USE. PATENT 3,454,697.
A Joyner C K Piercy
Us Patent Office Offic Gaz 864(2):575
08 Jul 1969 156.65 OF2
Antibiotics, Chlortetracycline, Demethylchlortetracycline, Patents, Tetracycline.

10338-69
ISOLATION OF SALMONELLA PULLORUM FROM A CASEOUS NODULAR IN THE ORBITAL REGION OF A CHICK ARBOR ACRES BREED. (POR)
J R July A Nakano
Sao Paulo Inst Biol Arq 36(1 JAN-MAR):55-57
Mar 1969 442.9 SA6
Chickens, Eyes, Salmonella pullorum. Englisb abstract.

10339-69
SURVEY OF YEASTLIKE FUNGI AND TISSUE CHANGES IN ESOPHAGOGASTRIC REGION OF STOMACHS OF SWINE.
W L Kadel D C Kelley E H Coles
Amer J Vet Res 30(3):401-408 REF
Mar 1969 41.8 AM3A
Candida albicans, Esophagus, Fungi, Gastrointestinal system, Keratinization, Livestock diseases, Mycosis, Stomach, Swine, Ulcers.

10340-69
ONTOGENY OF THE IMMUNE RESPONSE. V. FURTHER CHARACTERIZATION OF 19 S GAMMA G- AND 7 S GAMMA G-IMMUNOGLOBULINS IN THE TRUE PRIMARY IMMUNE RESPONSE IN GERMFREE, COLOSTRUMDEPRIVED PIGLETS.
Y B Kim S G Bradley D W Watson
J Immunol 101(2):224-236,REF
Aug 1968 448.8 J8232
Baby pigs, Germ-free life, Globulins, Immunity.

10341-69
ANALYTICAL STUDIES ON EXTRACTS OF LITOMOSOIDES CARINII. (GE
G Lammler B Enders H Zahner
Z Parasitenk 32(3):254-265 REF
16 Jun 1969 442.8 Z33F
Animal extracts, Biochemistry, Electrophoresis, Filariasis, Hexoses, Nitrogen, Proteins, Rodents. English abstract.

10342-69
THE COMPARATIVE PATHOLOGY OF DUCK PLAGUE IN WILD ANSERIFORMES.
L Leibovitz
J Wildlife Manage 33(2):294-303
Apr 1969 410 J827
Aquatic birds, Duck plague, Ducks, Geese, Virus diseases (animals), Wildlife diseases.

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ON THE EFFECT OF MOLDS ON VARIOUS ANIMAL SPECIES. PART 2. (GE
M Lenz
Z Angew Zool 55(4):385-425 REF
1968 449.8 Z36
Animal physiology, Animals, Aspergillus niger, Bibliography, Mycosis, Termites. English abstract.

10344-69
EQUINE VACCINES AND VACCINATIONS.
M Lyall
Auburn Vet 25(SPRING):100-103
1969 41.8 AU1
Equine encephalomyelitis vaccines, Equine influenza vaccines, Equine rhinopneumonitis vaccines, Horses, Immunization, Strangles (horses), Tetanus, Vaccines.

10345-69
BABESIA ARGENTINA: SERUM CHANGES IN INFECTED CALVES.
D F Mahoney B V Goodger
Exp Parasitol 24(3):375-382 REF
Jun 1969 436.8 EX7
Babesia argentina, Calves, Fibrinogen, Serum.

10346-69
RUBBER--VINE (CRYPTOSTEGIA GRANDIFLORA) TOXICITY FOR RUMINANTS.
M D McGavin
Queensland J Agr Anim Sci 26(1):9-19
Mar 1969 23 Q37
Livestock diseases, Poisonous plants, Ruminants, Toxicity, Weeds.

10347-69
THE OCCURRENCE OF EPHEMERAL FEVER OF CATTLE IN VICTORIA IN 1968.
I Morgan M D Murray
Australian Vet J 45(6):271-274 MAP
Jun 1969 41.8 AU72
Cattle, Ephemeral fever, Epizootic diseases, Surveys.

10348-69
CASE OF RABIES IN GUINEA PIG WITH LONG INCUBATION PERIOD. (POR)
M R Nilsson
Sao Paulo Inst Biol Arq 36(1 JAN-MAR):59-61
Mar 1969 442.9 SA6
Animal histology, Biological assay, Guinea pigs, Inclusion bodies, Rabies. English abstract.

Two guinea pigs were inoculated intramuscularly with rabies virus from the brain of a dog. This brain was maintained at -20 degrees C. for 10 months before inoculation. The titer of this virus was 10 to the minus 2.6/0.025 ml. when tested in adult mice by the intracerebral inoculation. A guinea pig died 373 days after inoculation and his brain was positive for rabies by detection of Negri bodies and by mouse inoculation test, with incubation period of 7-8 days.

10349-69
RABIES DIAGNOSIS. OBSERVATIONS ON STRAINS OF VIRUS WITH LOW PATHOGENICITY. (POR)
M R Nilsson
Sao Paulo Inst Biol Arq 36(1 JAN-MAR):63-65
Mar 1969 442.9 SA6
Bats, Diagnosis, Livestock, Mice, Rabies virus, Vectors, Virulence.

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OFFICIAL PROCEEDINGS. SECOND ANNUAL PACIFIC NORTHWEST ANIMAL NUTRITION CONFERENCE, AT PACIFIC SCIENCE CENTER, SEATTLE, WASHINGTON, NOVEMBER 9-10, 1967.
104P REF
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Animal nutrition, Conferences, Deficiency diseases, Feed.

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AN OUTBREAK OF VIBRIOSIS IN SHEEP IN NEW SOUTH WALES.
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Australian Vet J 45(6):279-280
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Sheep, Surveys, Vibriosis.

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EFFECT OF MANGANESE AND COBALT ON ASCORBIC ACID METABOLISM IN RATS.
N Sasmal D Mukherjee N C Kar G C Chatterjee
J Biochem 5(3):123-125 REF
Sep 1968 385 J822
Ascorbic acid, Cobalt sulfate, Manganese chloride, Metabolism, Rats.

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RESEARCH ON THE EFFECT OF THE ENTOMOPHAGOUS FUNGI BEAUVERIA BASSIANA (BALS.) VUILL. AND METARRHIZIUM ANISOPLIAE (METSCH.) SOROK. ON WARM-BLOODED ANIMALS. (GE)
B Schaerffenberg
Entomophaga 13(2):175-182 REF
1968 421 EN835
Allergies, Beauveria bassiana, Entomogenous fungi, Mammals, Metarrhizium anisopliae, Toxicology. English summary.

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EIMERIA TENELLA SCHIZONTS AND MEROZOITES IN MACROPHAGES AS SHOWN BY ELECTRON MICROSCOPY. (GE)
E Scholtyseek R G Strout A Haberkorn
Z Parasitenk 32(3):284-296 REF
16 Jun 1969 442.8 Z33F
Animal diseases, Eimeria tenella, Electron microscopy, Morphology. English abstract.

10355-69
MEDICAL AND VETERINARY CHEMICALS. VOL.I,PARTS I AND II.
R Slack A W Nineham
Oxford, Pergamon Press. 254P
1968 RS79.S4
Antibiotics, Drugs, Malaria, Tuberculosis, Veterinary medicine, Viruses.

10356-69
GAS CHROMATOGRAPHIC METHOD FOR DETERMINATION OF DIETHYLSTILBESTROL IN FEEDS.
I E Smiley E D Schall
Ass Offic Anal Chem J 52(1):107-109
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Bis-(trimethylsilyl)acetamide, N,O-, Chemical analysis, Chromatography, Dienestrol diacetate, Diethylstilbestrol, Feed additives.

10357-69
PROBLEMS IN RAISING DUCKS.
K J Staples
S Australia J Agr 72(6):202-207
Jan 1969 23 SO84

Aspergillosis, Botulism, Coccidiosis, Deficiency diseases, Ducks, Food poisoning, Fowl cholera, Fumigation, Mycosis, Parasitic insects, Poultry diseases, Poultry farm management, Respiratory diseases, Salmonellosis, Sanitation, Spirochetosis, Temperature.

10358-69
THE ISOLATION OF A STRAIN OF LEPTOSPIRA, SEROTYPE HARDJO, FROM CATTLE IN QUEENSLAND.
N D Sullivan N D Stallman
Australian Vet J 45(6):281-283 REF
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Antibodies, Cattle, Leptospira hardjo, Serological tests.

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H Tint
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Immunization, Intestines, Patents, Virucides, Viruses.

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IMMUNOGENICITY OF CONCENTRATED AND PURIFIED RABIES VACCINE OF TISSUE CULTURE ORIGIN.
T J Wiktor F Sokol E Kuwert H Koprowski
Soc Exp Biol Med Proc 131(3):799-805 REF
Jul 1969 442.9 SO1
Immunology, Mice, Rabies vaccines, Tissue culture.

10361-69
IMMUNE LYSIS OF RABIES VIRUS-INFECTED CELLS.
T J Wiktor E Kuwert H Koprowski
J Immunol 101(6):1271-1282, REF
Dec 1968 448.8 J8232
Cells, Hamsters, Immunity, Lysis, Rabies.

10362-69
METHOD FOR COMBATING MICRO-ORGANISMS. PATENT 3,458,636.
C Woolf R H Wood
Us Patent Office Offic Gaz 864(5):1646
29 Jul 1969 156.65 OF2
Bactericides, Bis(trifluoromethyl)-3,4-difluorooxetene, 2,2-, Microorganisms, Patents, Staphylococcus aureus.

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10363-69
THE INCIDENCE OF DEMODECTIC MITES IN THE EYELIDS OF VARIOUS MAMMALIAN HOSTS.
D W Baker W F Fisher
J Econ Entomol 62(4):942
15 Aug 1969 421 J822
Cattle, Deer, Demodex, Eyelids, Goats, Horses, Mites, Sheep.

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A STUDY OF THE MITES OF THE GAMASOIDEA SUPERFAMILY (PARASITIFORMES) INFESTING SMALL MAMMALS ON THE VITOSHA MOUNTAIN. (RUS)
M Koyumdjieva
Bulgarska Akad Nauk Zool Inst Muz Izv 23:109-137 REF
1967 410.9 B8721
Acarina, Insect biology, Mammals, Population. English abstract.

10365-69
RECORDS OF PUPIPAROUS DIPTERA (HIPPOBOSCIDAE) ON BIRDS IN INDIA--III.
M G R Menon Y P Beri S S Misra
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Birds, Hippoboscidae, Parasitic insects, Pupae.

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Ancylostoma caninum, Dogs, Eimeria, Taxonomy.

10367-69
USE OF INERT PARTICLES FOR THE DIAGNOSIS OF SHEEP CISTICERCOSIS. BENTONITE TEST. (SP)
M Atienza Fernandez V Gomez Garcia J Gonzalez Castro
Rev Iberica Parasitol 29(1 JAN-MAR):35-43 REF
Mar 1969 436.8 R32
Bentonite, Cysticercus, Goats, Serodiagnosis, Sheep. English abstract.

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STUDIES ON LIPID METABOLISM OF ASCARIS DURING STARVATION.
C G Beames N S Jacobsen G W Harrington
Okla Acad Sci Proc 47:40-44 REF
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Ascaris lumbricoides suum, Carbon dioxide, Lipids, Metabolism, Starvation.

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E Bueding H J Saz
Compar Biochem Physiol 24(2):511-518 REF
Feb 1968 444.8 C73
Ascaris, Biochemistry, Hymenolepis diminuta, Kinases, Muscles, Pyruvate kinase, Schistosoma mansoni.

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THE DEVELOPMENT OF THE BODY WALL OF POLYMORPHUS MINUTUS (ACANTHOCEPHALA) IN ITS INTERMEDIATE HOST GAMMARUS PULEX.
P E Butterworth
Parasitology 59(2):373-388 REF
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Acanthocephala, Arthropoda, Morphology, Physiology, Polymorphus boschadis.

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CONTRIBUTION TO THE RESEARCH ON THE HELMINTH FAUNA OF WILD BIRDS IN THRACE (SOUTHERN BULGARIA) ACATHOCEPHALA. (RUS)
K Caceva
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Acanthocephala, Birds, Surveys, Zoogeography. French abstract.

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RECENT TECHNIQUES FOR SERODIAGNOSIS OF HYDATIDOSIS. V. THE IMPORTANCE OF TESTS OF BENTONITE, LATEX AND INDIRECT HEMAGGLUTINATION IN THE FIELD SANITATION OF HIDATIOOSIS. (SP
J G Castro
Rev Iberica Parasitol 28(4,OCT-DEC):553-565 REF
Dec 1968 436.8 R32
Bentonite, Echinococcosis, Hemagglutination, Latex, Sanitation control (pests), Serodiagnosis.

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ON THE ENVIRONMENT OF POLYMORPHUS MINUTUS (ACANTHOCEPHALA) IN DUCKS.
D W T Crompton
Parasitology 59(1):19-28 REF
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Biochemistry, Biology, Ducks, Environment, Intestines, Parasitism, Polymorphus boschadis, Poultry diseases.

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THE EFFECT OF GASTRO-INTESTINAL SECRETIONS ON TAENIID EGG MEMBRANES. (GE)
R Gonnert H Thomas
Z Parasitenk 32(3):237-253 REF
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Animal diseases, Eggs, Enzymes, Gastrointestinal system, Hydrolysis, Physiology, Taenia hydatigena, Taenia pisiformis, Taenia saginata. English abstract.

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PNEUMOSTRONGYLUS TENUIS IN MOOSE ON A DEER-FREE ISLAND.
P D Karns P A Jordan
J Wildlife Manage 33(2):431-433 REF
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Feces, Larvae, Moose, Nematodes, Pneumostrongylus tenuis.

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DIROFILARIA IMMITIS FROM THE EYE OF A DOG.
D W Lavers D M Spratt C Thomas
Australian Vet J 45(6):284-286
Jun 1969 41.8 AU72
Diethylcarbamazine, Dirofilaria immitis, Dogs, Eyes, Surgery.

10377-69
ANCYLOSTOMA CANINUM: FINE STRUCTURE OF INTESTINAL EPITHELIUM.
C C Lee
Exp Parasitol 24(3):336-347 REF
Jun 1969 436.8 EX7
Ancylostoma caninum, Cytology, Electron microscopy, Histology, Intestines, Mitochondria.

10378-69
THE FINE STRUCTURE AND METHOD OF FEEDING OF THE TISSUE PARASITIZING STAGES OF HISTOMONAS MELEAGRIDIS.
D L Lee P L Long B J Millard J Bradley
Parasitology 59(1):171-184 REF
Feb 1969 448.8 P21
Biochemistry, Biology, Chickens, Electron microscopy, Histomonas meleagridis, Morphology, Nutrition, Turkeys.

10379-69
ARGININE METABOLISM IN ASCARIS LUMBRICOIDES. ACTIVITY OF ARGININE CARBOXYLASE AND ARGINASE. (SP)
J Lopez-Gorge M Monteoliva
Rev Iberica Parasitol 29(1 JAN-MAR):3-34 REF
Mar 1969 436.8 R32
Arginase, Ascaris lumbricoides, Bibliography, Biochemistry, Carboxylases, Metabolism. English abstract.

10380-69
THE COURSE OF NATURALLY ACQUIRED HELMINTH INFECTIONS OF HORSES GIVEN REGULAR ANTHELMINTIC TREATMENT.
M C Round
Res Vet Sci 9(6):583-590 REF
Nov 1968 41.8 R312
Anthelmintics, Horses, Larvae, Strongylus, Thiazolyl)-henzimidizole, 2-(4-.

10381-69
SCHISTOSOMAL CIRRHOSIS IN PIGS IN JABALPUR, M. P..
H P O Shrivastav J P Duhey
Cur Sci 38(6):147-148
20 Mar 1969 475 SCI23
Cirrhosis, Liver, Schistosomiasis, Swine.

10382-69
SPIRURATA OF ANIMALS AND HUMANS AND THE DISEASES. (RUS)
K I Skryabine A A Soholev V M Ivashkin

Akad Nauk Sssr Gelmintol Lab Tr 19(5, SUPPL):7-239 REF
1967 436.9 AK1
Animal diseases, Diagnosis, Histology, Human diseases, Morphology, Nematodes, Spiruridae, Taxonomy.

10383-69
TRANSMISSION OF HISTOMONIASIS WITH MALE HETERAKIS GALLINARUM (NEMATODA).
W T Springer J Johnson W. M Reid
Parasitology 59(2):401-405 REF
May 1969 448.8 P21
Blackhead, Disease transmission, Epizootic diseases, Heterakis gallinarum, Poultry diseases, Turkeys.

COMMODITY PROTECTION

STORAGE DISEASES

10384-69
TREATED WATER CURBS TOMATO DECAY.
Anonymous
Agr Res 17(11):14
May 1969 1.98 AG84
Bacterial diseases (plants), Chemical control (plant diseases), Chlorine, Sodium hypochlorite, Storage diseases, Surface-active agents, Tomatoes, Water treatment.

ARTHROPODS

10385-69
WHARF BORER.
Anonymous
Nat Pest Cont Ass Tech Release 16-69:1-4
29 Jul 1969 423.9 N213T
Chemical control (insects), Insect behavior, Insect biology, Insect identification, Insecticides, Nacerdes melanura, Zoogeography.

10386-69
ODOROUS HOUSE ANT FEEDS ON PHOTOGRAPHIC FILM.
L R Brown
J Econ Entomol 62(4):955-956
15 Aug 1969 421 J822
Feeding, Film, Formicidae, Gelatin, Insect behavior, Insect pests, Tapinoma sessile.

10387-69
THE CONTROL OF INSECTS IN BAGGED GRAIN BY THE INJECTION OF DICHLORVOS.
A A Green D R Wilkin
J Stored Prod Res 5(1):11-19
May 1969 421 J829
Chemical control (insects), Dichlorvos, Grain, Insecticides, Organophosphorus compounds, Oryzaephilus surinamensis, Sitophilus granarius, Stored products.

10388-69
STUDIES ON THE INCIDENCE AND EXTENT OF DAMAGE DUE TO INSECT PESTS IN STORED SEEDS--I. CEREAL SEEDS.
P B Mookherjee M G Jotwani P Sircar T D Yadav
Indian J Entomol 30(1):61-65
Mar 1968 420 IN23
Crop losses, Grain, Stored-product insects, Surveys.

10389-69
OBSERVATIONS ON PROLONGED GRAIN STORAGE WITH FORCED AERATION IN ISRAEL.
S Navarro E Donahaye M Calderon
J Stored Prod Res 5(1):73-81 REF
May 1969 421 J829
Aeration, Insect pests, Stored products, Temperature, Wheat.

10390-69
ANALYSIS OF GRAIN STORAGE PROBLEMS IN INDIA.
S Pradhan
Indian J Entomol 30(1):94-103
Mar 1968 420 IN23
Air, Chemical control (insects), Containers, Grain, Humidity, Oxygen, Storage, Stored product insects, Temperature.

10391-69
BIOLOGICAL STUDIES IN GHANA IN THE CONTROL OF CADRA CAUTELLA (WLK.), THE TROPICAL WAREHOUSE MOTH.
J Rawnsley
Ghana J Agr Sci 1(2):155-159
1968 S19.G5
Biological control (insects), Cadra cautella, Chemical control (insects), Ghana, Insect pests, Stored products, Warehouses. French summary.

ENVIRONMENTAL CONTAMINATION

10392-69
SURFACE HYDROLOGY AND PESTICIDES.
W F Barthel D A Parsons L L McDowell E H Grissinger
Amer Soc Agron ASA Spec Publ 8:128-144
Nov 1966 64.9 AM3
Chlorinated hydrocarbons, Hydrology, Pesticide analysis, Pesticide residues, Pesticides, Sulfur, Water pollution.

10393-69
OBSERVATIONS ON THE DECLINE OF WATER MILFOIL AND OTHER AQUATIC PLANTS, MARYLAND, 1962-1967.
H J Elser
Northeast Weed Contr Conf Proc 22:487
03 Jan 1968 79.9 N814
Aquatic plants, Aquatic weeds, Microorganisms, Myriophyllum spicatum.

10394-69
EGGS AND CHLORINATED HYDROCARBONS.
D C Erwin
World Rev Pest Contr 8(1,SPRING):4
1969 79.8 W89
Birds, Chlorinated hydrocarbons, Dichloro-2,2-bis(p-chlorophenyl) ethylene, 1,1-, DDT, Eggs.

10395-69
RESEARCH ON POLLUTION OF CROPS, SOIL AND SHALLOW BODIES OF WATER IN LIGURIA, THROUGH RESIDUES OF SOME ORGANOCHLORINATED PESTICIDES. (IT)
S Kanitz G Castello
Giornate Fitopatol 49-55 REF
26 Mar 1967 SB599.G5
Adipose tissue (animals), Aldrin, Chlorinated hydrocarbons, Chlorine, Crops, Dieldrin, DDT, Endrin, Lindane, Organic compounds, Pesticide residues, Soil contamination, Tables (data), Water pollution.

10396-69
POTENTIALS FOR REMOVING PESTICIDES FROM WATER.
F K Kawahara A W Breidenbach
Amer Soc Agron ASA Spec Publ 8:122-127
Nov 1966 64.9 AM3
Chlorinated hydrocarbons, Pesticide analysis, Pesticide residues, Pesticides, Water, Water pollution, Water treatment.

10397-69
PESTICIDES AND CLAY MINERALS.
G W Kunze
Amer Soc Agron ASA Spec Publ 8:49-70 REF
Nov 1966 64.9 AM3
Carbamates, Chlorinated hydrocarbons, Clay minerals, Fumigants, Organophosphorus compounds, Pesticide residues, Pesticides, Rainfall, Soil leaching, Soil texture.

10398-69
MOVEMENT OF PESTICIDES IN THE SOIL.
H E LeGrand
Amer Soc Agron ASA Spec Publ 8:71-77
Nov 1966 64.9 AM3
Pesticide residues, Soils, Waste disposal, Water.

10399-69
DETERMINATION AND MEASUREMENT OF INSECTICIDE DUST PARTICLES IN ATMOSPHERES ADJACENT TO ORCHARDS.
G B MacCollom D B Johnstone B Parker
Bull Environ Contamination Toxicol 3(6,NOV-DEC):368-374
Dec 1968 RA1270.P35A1
Fisheries, Food analysis, Insecticides, Metals, Orchards, Spectrophotometry.

10400-69
INFLUENCE OF PESTICIDES ON SOIL MICROBES AND SOIL PROPERTIES.
J P Martin
Amer Soc Agron ASA Spec Publ 8:95-107 REF
Nov 1966 64.9 AM3
Decomposition, Pesticide residues, Plant physiology, Soil microorganisms, Soil properties, Soils, Toxicology.

10401-69
THE FATE OF PHENYL N,N'-DIMETHYLPHOSPHORDIAMIDATE IN SOIL.
R W Meikle P H Christie
Bull Environ Contamination Toxicol 4(2,MAR-APR):88-103
Apr 1969 RA1270.P35A1
Chromatography, Degradation, Electrophoresis, Nematocides, Phenyl N,N'-dimethylphosphorodiamidate, Radioisotopes, Soils.

10402-69
CONSEQUENCES OF INSECTICIDE USE OF NONTARGET ORGANISMS.
L D Newsom
Annu Rev Entomol 12:257-286 REF
1967 421 AN72
Air, Animals, Bibliography, Birds, Chlorinated hydrocarbons, Fish, Humans, Insecticide residues, Insecticides, Plants, Soils, Water, Wildlife.

10403-69
WATER FLORAE AS INDICATORS OF IRRIGATION WATER CONTAMINATION BY DDT.
G W Ware M K Dee W P Cahill
Bull Environ Contamination Toxicol 3(6,NOV-DEC):333-338
Dec 1968 RA1270.P35A1
Aquatic plants, DDT, Indicator plants, Insecticides, Irrigation, Plant water relations, Water analysis, Water pollution.

RESIDUES

10404-69
GLC DETERMINATION OF RESIDUES OF DISULFOTON, OXYDEMETONMETHYL, AND THEIR METABOLITES IN TOBACCO PLANTS.
M C Bowman M Beroza C R Gentry
Ass Offic Anal Chem J 52(1):157-162 REF
Jan 1969 381 AS7
Chemical analysis, Chromatography, Disulfoton, Insecticide residues, Oxydemetonmethyl, Tobacco.

10405-69
DDT IN FATS ON ANTARCTIC ANIMALS.
H V Brewerton
New Zealand J Sci 12(2):194-199
Jun 1969 514 N482

Aquatic animals, Chlorinated hydrocarbons, Chromatography, DDT, Fats, Insecticide residues, Insecticides.

10406-69
PROBLEMS WITH DDT IN FISH CULTURE OPERATIONS.
J P Cuerrier J A Keith E Stone
Natar Can 94(3,MAY-JUN):315-320
Jun 1967 410 N216
DDT, Feed, Fish, Fishery products, Insecticide residues, Roe, Trout.

10407-69
PESTICIDE RESIDUES IN THE ECOSYSTEM.
E H Dustman L F Stickel
Amer Soc Agron ASA Spec Publ 8:109-121 REF
Nov 1966 64.9 AM3
Chlorinated hydrocarbons, DDT, Pesticide application, Pesticide residues.

10408-69
UPTAKE OF DIELDRIN BY ISOLATED PERFUSED GILLS OF RAINBOW TROUT.
P O Fromm R C Hunter
Can Fish Res Board J 26(7):1939-1942
Jul 1969 442.9 C16J
Animal physiology, Chlorinated hydrocarbons, Cyclodiene compounds, Dieldrin, Fish, Insecticide residues, Insecticides, Trout.

10409-69
COLLABORATIVE STUDY OF CONFIRMATIVE PROCEDURES BY SINGLE SWEEP OSCILLOGRAPHIC POLAROGRAPHY FOR THE DETERMINATION OF ORGANOPHOSPHORUS PESTICIDE RESIDUES IN NONFATTY FOODS.
R J Gajan
Ass Offic Anal Chem J 52(4):811-817 REF
Jul 1969 381 AS7
Chemical analysis, Diazinon, Food contamination, Insecticide residues, Malathion, Methodology, Methyl parathion, Organophosphorus compounds, Parathion, Polarography.

10410-69
GAS CHROMATOGRAPHIC DETERMINATION OF RESIDUES OF DALAPON IN SEVERAL SUBSTRATES.
M E Getzendaner
Ass Offic Anal Chem J 52(4):824-831
Jul 1969 381 AS7
Animal extracts, Chemical analysis, Chromatography, Dalapon, Herbicide residues, Plant extracts.

10411-69
INDUSTRY'S CONCERN WITH PESTICIDE RESIDUES.
R Hansberry
Amer Soc Agron ASA Spec Publ 8:10-17
Nov 1966 64.9 AM3
Aldrin, Corn, Cotton, Endrin, Fish, Heptachlor epoxide, Insecticide residues, Pesticide residues, Rice, Soils.

10412-69
EXTRACTION AND GAS-LIQUID CHROMATOGRAPHIC DETERMINATION OF VERNOLATE IN SOIL.
H P Hermanson M Siewierski K Helrich
Ass Offic Anal Chem J 52(1):175-177
Jan 1969 381 AS7
Chemical analysis, Chromatography, Herbicide residues, Soils, Vernolate.

A gas-liquid chromatographic system using flame photometric detection was developed for the separation and measurement of residue quantities of vernolate and 1-propanethiol in soil. With 3 per cent Apiezon L on Chromosorb G column, the limit of detection was 0.003 mg for either compound.

10413-69
MODIFICATIONS OF THE MICROMETHOD OF SAMPLE CLEANUP FOR THIN-LAYER AND GAS CHROMATOGRAPHIC SEPARATION AND DETERMINATION OF COMMON ORGANIC PESTICIDE RESIDUES.
A M Kadoum
Bull Environ Contamination Toxicol 3(6,NOV-DEC):354-359
Dec 1968 RA1270.P35A1
Chemistry, Chromatography, Methodology, Organic compounds, Pesticide residues.

10414-69
ACTIVATION AND STANDARDIZATION OF PURIFIED SILICA GEL FOR COLUMN CHROMATOGRAPHIC CLEANUP OF PESTICIDE RESIDUE EXTRACTS.
A M Kadoum
Bull Environ Contamination Toxicol 4(2,MAR-APR):120-127
Apr 1969 RA1270.P35A1
Chemical analysis, Chromatography, Methodology, Pesticide residues, Silica gels.

10415-69
SURVIVAL OF LYOPHILIZED BACILLUS POPILLIAE IN SOIL.
A J Lingg K J McMahon
Appl Microbiol 17(5):718-720 REF
May 1969 448.3 AP5
Bacillus popilliae, Humidity, Longevity, Lyophilization, Soil microorganisms.

10416-69
ANALYSIS OF GRAINS FOR MULTIPLE RESIDUES OF ORGANIC FUMIGANTS.
B Malone
Ass Offic Anal Chem J 52(4):800-805 REF
Jul 1969 381 AS7
Chemical analysis, Distillation, Fumigants, Grain, Methodology, Methyl bromide, Pesticide residues.

10417-69
NOTICE OF FILING OF PETITION FOR FOOD ADDITIVES.
M McCart
Fed Regist 34(94):7826-7827
16 May 1969 L1.451
Bagasse, Dimethyl-3-(alpha,alpha,alpha-trifluoro-m-tolyl)urea, 1,1-, Food additives, Herbicide residues, Tolerances.

10418-69
METHODS OF DETERMINING PESTICIDES IN FOOD PRODUCTS. (JPRS 34,946).
A A Pokrovskiy et. al.
5P
07 Apr 1966 TRANSL. 15920
Food, Methodology, Organic compounds, Organophosphorus compounds, Pesticide residues. Translation from Metody Opredeleniya Pestitsidov v Dishchevykh Produktakh, page 2, 1967.

10419-69
PEACOCK PLASMA, A USEFUL CHOLINESTERASE SOURCE FOR INHIBITION RESIDUE ANALYSIS OF INSECTICIDAL CARBAMATES.
G Voss
Bull Environ Contamination Toxicol 3(6,NOV-DEC):339-347
Dec 1968 RA1270.P35A1
Birds, Blood plasma, Carbamates, Chemical analysis, Cholinesterases, Insecticide residues, Methodology.

10420-69
TRAPPING OF DIELDRIN LOST FROM AQUEOUS ALGAE CULTURES.
W B Wheeler
Ass Offic Anal Chem J 52(4):760-764
Jul 1969 381 AS7
Algae, Chemical analysis, Chemistry, Chromatography, Dieldrin, Distillation, Insecticide residues.

10421-69
EXTRACTION, SEPARATION, AND GLC DETECTION OF SILVEX AND ITS PROPYLENE GLYCOL ETHER ESTER IN FISH TISSUE.
P W Williams J I Teasley
Ass Offic Anal Chem J 52(4):782-785 REF
Jul 1969 381 AS7
Animal extracts, Chemical analysis, Chemistry, Fish, Quantitative analysis, Silvex.

TOXICOLOGY

10422-69
BIODEGRADATION OF PESTICIDES.
M Alexander
Amer Soc Agron ASA Spec Publ 8:78-84
Nov 1966 64.9 AM3
Biodegradation, Enzymes, Metabolism, Microorganisms, Pesticides, Toxicology.

10423-69
ENDRIN INDUCED ALTERATIONS IN BOUND CARBOHYDRATES IN RAT SERUM.
R L Coleman
Bull Environ Contamination Toxicol 3(6,NOV-DEC):348-351
Dec 1968 RA1270.P35A1
Animal physiology, Blood serum, Carbohydrates, Endrin, Glycoproteins, Pesticides, Rats, Toxicology.

10424-69
SPECIFICITY AND MECHANISM IN THE ACTION OF SALIGENIN CYCLIC PHOSPHORUS ESTERS.
M Eto
Residue Rev 25:187-200 REF
1969 389.9 R314
Biochemistry, Insects, Organophosphorus compounds, Physiology, Toxicity.

10425-69
DEGRADATION AND DISAPPEARANCE OF ORTHO, PARA ISOMER OF TECHNICAL DDT IN LIVING AND DEAD AVIAN TISSUES.
M C French D J Jefferies
Science 165(3896):914-916 REF
29 Aug 1969 470 SCI2
Animal metaholism, Birds, DDT, Insecticides, Isomers, Toxicology.

10426-69
THE IN VITRO METABOLISM OF ORGANOPHOSPHORUS INSECTICIDES BY TISSUE HOMOGENATES FROM MAMMAL AND INSECT.
K Fukunaga J I Fukami T Shishido
Residue Rev 25:223-249 REF
1969 389.9 R314
Animal metabolism, Degradation, Insect metabolism, Organophosphorus compounds, Tissue culture, Tissue extracts.

10427-69
STRUCTURE OF PESTICIDES AND DECOMPOSITION BY SOIL MICROORGANISMS.
D D Kaufman
Amer Soc Agron ASA Spec Publ 8:85-94 REF
Nov 1966 64.9 AM3
Chemical structure, Chlorinated hydrocarbons, Decomposition, Pesticide residues, Soil microorganisms, Soils.

10428-69
RESEARCHES ON GALEGA SPECIES REGARDING THEIR CONTENT OF TOXINS BY MEANS OF BIOLOGICAL METHODS. I. TOXICITY OF GOATS-RUE (GALEGA OFFICINALIS L.) FOR WARMBLOODED ANIMALS. (GE
H. Kohler
Biol Zentralbl 88(2, MAR-APR):165-177 REF
Apr 1969 442.8 B523
Mice, Plant extracts, Poisonous plants, Toxins. English abstract.

10429-69
DELAYED LETHAL EFFECT OF 2,4-DICHLOROPHENOXYACETIC ACID ON BACTERIA.
C A Lamartiniere L T Hart A D Larson

Bull Environ Contamination Toxicol 4(2,MAR-APR):113-119
Apr 1969 RA1270.P35A1
Aerobacter aerogenes, D, 2,4-, Enzymes, Herbicides, Inhibitors, Micrococcaceae, Pseudomonas fluorescens, Staphylococcus aureus, Toxicology.

10430-69
THE DIFFERENCE IN SENSITIVITY TO THE STERILIZING ACTION OF O,O-DIETHYL-O-PARANITROPHENYL THIOPHOSPHATE OF THE EMBRYONIC TESTICLES OF QUAILS AND CHICKENS IN IN VITRO CULTURE. (FR)
Y Lutz-Ostertag R Meiniel
Paris Soc Biol Compt Rend 162(8-9):1471-1472
03 Mar 1969 442.9 P21
Animal physiology, Chickens, Parathion, Quail, Testes, Tissue culture.

PLANT PHYSIOLOGY & BIOCHEMISTRY

10431-69
CELL PHYSIOLOGY INVESTIGATIONS OF THE ACTION OF NEW TRIAZINE DERIVITIVES ON PETIOLE EPIDERMIS OF SOLANUM TUBEROSUM L. (GE
S Auerhach P Pruefer G Weise
Biol Zentralbl 87(4):425-438, REF
Jul 1968 442.8 B523
Cells, Epithelium, Herbicides, Leaves, Plant physiology, Potatoes, Triazines. English summary. Leaf-stalk epidermis used.

10432-69
PHYSIOLOGICAL AND BIOCHEMICAL CONTRIBUTION TO FUME DAMAGE RESEARCH, 8. PHYSIOLOGICAL INVESTIGATIONS OF THE ACTION OF SO2 ON THE METABOLISM OF CONIFER NEEDLES IN WINTER. (GE)
S Boertitz
Biol Zentralbl 87(4):489-506, REF
Jul 1968 442.8 B523
Air pollution, Coniferae, Environment, Picea abies, Picea omorika, Pine needles, Pinus sylvestris, Plant biochemistry, Plant hardiness, Plant injuries, Plant metaholism, Plant physiology, Sulfur dioxide. English and German summaries.

10433-69
DISCOVERY OF SINIGRIN AS A PHAGOSTINMULANT BY ATHALIA PROXIMA KLUG. (HYMENOPTERA: TENTHREDINIDAE).
J K Bogawat B K Srivastava
Indian J Entomol 30(1):89
Mar 1968 420 IN23
Athalia proxima, Glycosides, Plant biochemistry, Sinigrin, Tenthredinidae.

10434-69
INFLUENCE OF ATRAZINE (2-CHLORO-4-ETHYLAMINO-6-ISOPROPYLAMINO-5-TRIAZINE) ON AUXIN METABOLISM OF PLANTS.
E Ebert Ch J V Assche
Experientia 25(7):758-759 REF
15 Jul 1969 475 EX7
Atrazine, Herbicides, Plant biochemistry, Plant hormones, Plant metabolism, Plant physiology.

10435-69
VARIATIONS OF THE CULTURE OF FUSARIUM MONILIFORME INDUCED BY N-NITROSOETHYLUREA AND ETHYL METHANESULFONATE. (RUS)
L I Erokhina
Genetika 4(11):101-110 REF
1968 QH431.A1G4
Ethyl methanesulfonate, Fungus cultures, Fusarium moniliforme, Gibberellins, Plant genetics, Urea compounds. English summary.

10436-69
PLANT GROWTH REGULATORS.
D C Erwin
World Rev Pest Contr 8(1,SPRING):5
1969 79.8 W89
Bibliography, Literature, Plant growth regulator.

10437-69
THE CORRELATION BETWEEN PHYSIOLOGICAL ACTIVITY AND PHYSIOCOCHEMICAL PROPERTY OF THE SUBSTITUTED PHENOLS.
T Fujita M Nakajima
Residue Rev 25:319-326 REF
1969 389.9 R314
Chemical activation, Chemical structure, Mathematical analysis, Phenols, Phytotoxicity, Plant biochemistry.

10438-69
EFFECT OF DICHLORO DIPHENYL TRICHLORO-ETHANE (DDT) ON LEGHEMOGLOBIN CONTENT OF ROOT NODULES OF PHASEOLUS AUREUS (GREEN GRAM).
A C Gaur R P Pareek
Experientia 25(7):777
15 Jul 1969 475 EX7
DDT, Hemoglobin (plants), Insecticides, Mung beans, Plant biochemistry, Plant physiology, Roots, Toxicology.

10439-69
CYTOKININS AND TRANSFER RIBONUCLEIC ACIDS. II. PRESENCE OF CYTOKININS IN DIFFERENT AMINO-ACID SPECIFIC TRANSFER RIBONUCLEIC ACIDS OF BREWER'S YEAST AS REVEALED BY THE GROWTH RESPONSE OF TOBACCO-PITH CALLUS TISSUE AND SCORZONERA CROWN-GALL TISSUE.
M Giannattasio G Jeannin A Kovoor
Physiol Plant 22(3):458-461
05 Jun 1969 450 P564 (1)
Cytokinins, Plant biochemistry, Ribonucleic acid, Scorzonera, Tissue culture, Tobacco, Yeasts.

10440-69
COMPETITION BETWEEN FLAX AND WILD BUCKWHEAT.
R D Gruenhagen J D Nalewaja
Weed Sci 17(3):380-384 REF
Jul 1969 79.8 W41
Competition, Flax, Light, Plant ecology, Polygonum convolvulus, Population, Water, Weeds.

10441-69
VOLATILE METABOLITES FROM DIMETHYLDITHIOCARBAMATE FUNGICIDE RESIDUES.
J W Hylin B H Chin
Bull Environ Contamination Toxicol 3(6,NOV-DEC):322-332 REF
Dec 1968 RA1270.P35A1
Chemistry, Ferbam, Fungicides, Papayas, Pesticide residues, Plant metabolism, Radioactive tracers, Volatile substances.

10442-69
PROGRESS REPORT ON SHADE TREE INHIBITION. (ABSTRACT).
R R Johnson P E Spangler J E Esposito
Northeast Weed Contr Conf Proc 22:512
03 Jan 1968 79.9 N814
Plant growth inhibitors, Pruning, Shade trees.

10443-69
ON THE INHIBITORY EFFECT OF YEAST RIBONUCLEIC ACID ON THE INFECTION OF NICOTIANA GLUTINOSA BY TOBACCO MOSAIC VIRUS.
M Meneghini M R Musumeci W B C Moraes
Sao Paulo Inst Biol Arq 36(1,JAN-MAR):5-7
Mar 1969 442.9 SA6
Nicotiana glutinosa, Plant physiology, Ribonucleic acid, Tobacco mosaic virus, Yeasts.

10444-69
THE MODE OF ACTION OF MALEIC HYDRAZIDE: INHIBITION OF GROWTH.
L D Nooden
Physiol Plant 22(2):260-270 REF
04 Apr 1969 450 P564 (1)
Corn, Maleic hydrazide, Mitosis, Plant biochemistry, Plant growth inhibitors.

10445-69
PESTICIDE EFFECT ON PHOSPHORUS ABSORPTION FROM FERTILIZER-PESTICIDE MIXTURE APPLIED TO A TROPICAL SOIL WITH LOW AVAILABLE PHOSPHORUS VALUE.
C S Ofori
Ghana J Agr Sci 1(2):99-102
1968 S19.G5
Absorption, Aldrin, Chlorinated hydrocarbons, Corn, Dieldrin, Fertilizers, Pesticides, Phosphorus, Plant biochemistry, Soil properties, Tropical agriculture. French summary.

10446-69
BIOCHEMICAL STUDIES ON THE TERPENE METABOLISM IN SWEET POTATO ROOT TISSUE WITH BLACK ROT. EFFECT OF C10- AND C15-TERPENOLS ON ACETATE-2-14C INCORPORATION INTO IPOMEAMARONE.
I Oguni K Oshima H Imaseki I Uritani
Agr Biol Chem 33(1):50-62
Jan 1969 385 AG8B
Ceratocystis fimbriata, Farnesol, Geraniol, Metabolism, Sweetpotatoes.

10447-69
COLCHICINE-INDUCED TETRAPLOID AZALEAS.
R L Pryor L C Frazier
Hortscience 3(4, WINTER):283-286
1968 SB1.H6
Azalea, Chromosomes, Colchicine, Crop varieties, Plant abnormalities, Polyploidy.

10448-69
A SURVEY OF THE CHEMICAL COMPOSITION OF POTAMOGETON AND MYRIOPHYLLUM IN NEW JERSEY.
D N Riemer S J Toth
Weed Sci 17(2):219-223
Apr 1969 79.8 W41
Aquatic plants, Chemical analysis, Myriophyllum, Plant biochemistry, Potamogeton, Surveys, Weeds.

10449-69
DEGRADATION OF P32-BROMOPHOS BY MICROORGANISMS AND SEEDLINGS.
J Stenersen
Bull Environ Contamination Toxicol 4(2,MAR-APR):104-112
Apr 1969 RA1270.P35A1
Bromophos, Degradation, Insecticides, Microbiological degradation, Plant metabolism, Radioactive tracers, Seedlings.

10450-69
THE EFFECT OF N-DIMETHYL AMINO SUCCINAMIC ACID (ALAR) ON SIZE, SHAPE AND MATURITY OF DELICIOUS APPLES.
D T Sullivan
Hortscience 3(1,SPRING):18
1968 SB1.H6
Apples, Crop yields, Plant growth inhibitors, Spraying, Succinic acid, 2,2-dimethylhydrazide.

10451-69
PHOTOCONTROL OF ROUGH CINQUEFOIL SEED GERMINATION AND ITS ENHANCEMENT BY TEMPERATURE MANIPULATION AND KNO3.
R. B. Taylorson
Weed Sci 17(2):144-148 REF
Apr 1969 79.8 W41
Light, Plant physiology, Potassium nitrate, Potentilla, Seed germination, Temperature.

10452-69
REVERSION OF SENESCENCE: EFFECTS OF 2,4-DICHLOROPHENOXYACETIC ACID AND INDOLEACETIC ACID ON RESPIRATION, ETHYLENE PRODUCTION, AND RIPENING OF BANANA FRUIT SLICES.
M Vendrell
Australian J Biol Sci 22(3):601-610 REF

Jun 1969 442.8 AU72
Aging, Bananas, D, 2,4-, Ethylene, Indoleacetic acid, Plant physiology, Plant respiration.

10453-69
EFFECTS OF GIBBERELLIN A3 ON FRUIT SHAPE AND SUBSEQUENT SEED DORMANCY OF APPLE.
M N Westwood H O Bjornstad
Hortscience 3(1, SPRING):19-20
1968 SB1.H6
Apples, Gibherellic acid, Plant physiology, Plant regulators, Seed dormancy.

10454-69
DISTRIBUTION OF MISEROTOXIN IN VARIETIES OF ASTRAGALUS MISER DOUGL. EX HOOK.
M C Williams F A Norris
Weed Sci 17(2):236-238
Apr 1969 79.8 W41
Astragalus miser, Chemical analysis, Plant physiology, Poisonous plants, Poisons.

10455-69
EFFECTS OF AMMONIUM THIOCYANATE ON CARBOHYDRATE METABOLISM IN THE COTTON PLANT.
Y F Wu E Basler
Weed Sci 17(3):362-365 REF
Jul 1969 79.8 W41
Ammonium thiocyanate, Cotton, Hill reaction, Photosynthesis, Plant metaholism.

CHEMISTRY

10456-69
SPRAY GEL AGENT SOLVES DRIFT PROBLEM.
Anonymous
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Absorption and translocation of pyrazon by plants.
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